



CERN CAMAC NEWS No.11

March 1977

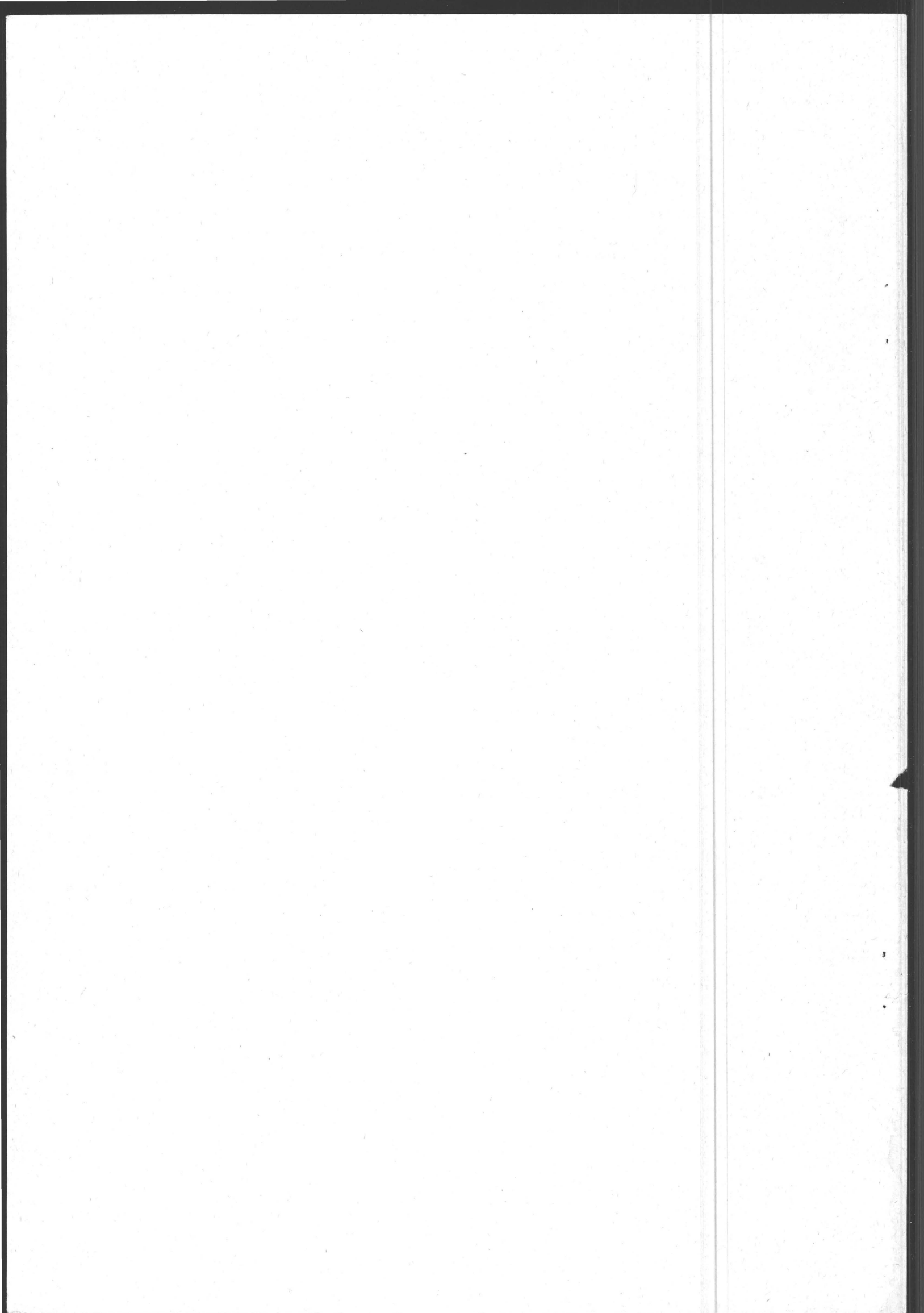
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CERN CAMAC NEWS

Special Issue :
CAMAC Product guide

for better communication

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Dear Reader,

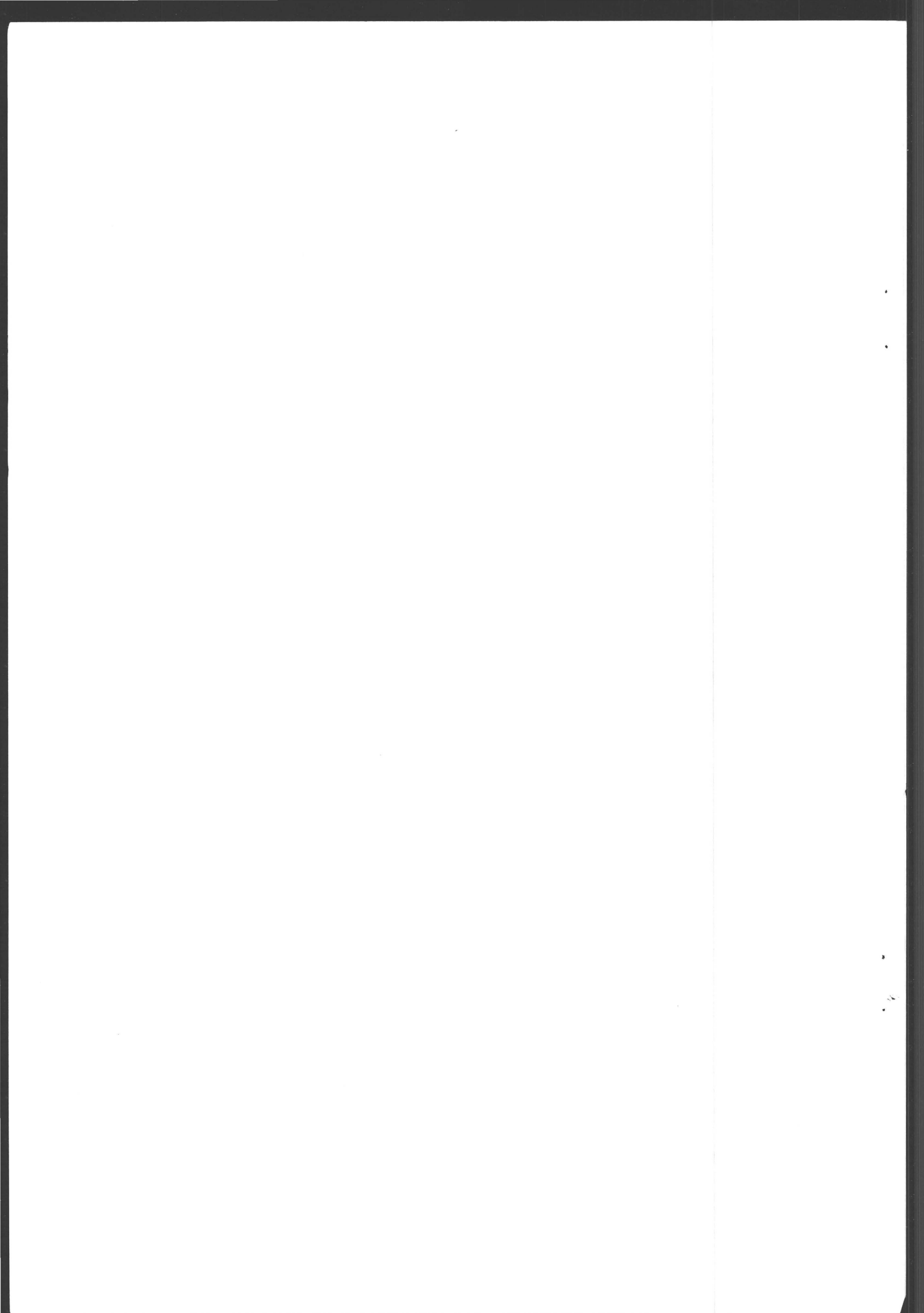
This Leaflet is the second and last special issue of the "CAMAC Products Guide" exceptionally published in the frame of the CERN CAMAC News. These two ad interim Products Guides were meant to allow more time to the European CAMAC Association (ECA) to explore other possibilities of publication after CEC stopped the CAMAC Bulletin after some three years of CAMAC promotion.

This exploration process, including enquiries about needs for it are still going on. About this Products Guide topic please, from now on, contact ECA Secretary, Dr. H. Meyer¹⁾ or ECA Chairman, Prof. Dr. K. Zander²⁾

The mailing lists used for this CAMAC Products Guide has been a combination of the usual CERN CAMAC News list with the list provided by the CEC in Luxembourg when it published and distributed the former "CAMAC Bulletin". ESONE members have also been added. We do hope that some form of a CAMAC Products Guide will continue to appear under the auspices of ECA.

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2) HMI Institute, Glienickestr. 100, 1 Berlin 39, BRD



C A M A C P R O D U C T S G U I D E

THIS GUIDE CONSISTS OF A LIST OF CAMAC EQUIPMENT WHICH IS BELIEVED TO BE OFFERED FOR SALE BY MANUFACTURERS IN EUROPE AND THE USA. THE INFORMATION HAS BEEN COMPILED BY CERN-NP-ELECTRONICS AND IS MAINLY BASED ON INFORMATION COMMUNICATED BY MANUFACTURERS AND AVAILABLE UP TO THE 31ST OF JANUARY 1977.

EVERY EFFORT HAS BEEN MADE TO ENSURE THE COMPLETENESS AND ACCURACY OF THE LIST, AND IT IS HOPED THAT MOST PRODUCTS AND MANUFACTURERS HAVE BEEN INCLUDED. INCLUSION IN THIS LIST DOES NOT NECESSARILY INDICATE THAT PRODUCTS ARE FULLY COMPATIBLE WITH THE CAMAC SPECIFICATIONS NOR THAT THEY ARE RECOMMENDED OR APPROVED BY THE ESONE COMMITTEE. SIMILARLY, OMISSION FROM THIS LIST DOES NOT INDICATE DISAPPROVAL BY THE ESONE COMMITTEE.

NO UPDATING INFORMATION FOR THE SOFTWARE SECTION HAS BEEN RECEIVED. THE READER IS REFERRED TO THE CAMAC PRODUCTS GUIDE IN CAMAC BULLETIN NO 14 OF DECEMBER 1975.

REMARKS ON SOME COLUMNS IN THE INDEX OF PRODUCTS

- COLUMN
- NC - N IS NEW, C IS CORRECTED ENTRY
- WIDTH - 1 TO 25, INDICATES MODULE WIDTH OR - FOR CRATES - THE NUMBER OF STATIONS AVAILABLE
- 0 INDICATES UNKNOWN WIDTH OR FORMAT
- BLANK, THE WIDTH HAS NO MEANING
- NA INDICATES OTHER FORMAT, NORMALLY A 19 INCH RACK MOUNTED CHASSIS
- NPR - NUMBER IN BRACKETS IS ISSUE NUMBER OF THE BULLETIN IN WHICH THE ITEM WAS OR IS DESCRIBED IN THE NEW PRODUCTS SECTION
- DELIV - DATE ON WHICH ITEM BECAME OR WILL BECOME AVAILABLE

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I N D E X * O F * P R O D U C T S

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
.01	DATA MODULES- I/O TRANSFERS AND PROCESSING *****					
.11	DIGITAL SERIAL INPUT MODULES --SCALERS, TIME INTER- VAL AND BI-DIRECTIONAL COUNTERS, SERIAL CODED ETC					
.111	SIMPLE SERIAL BINARY REGISTERS					
	QUAD SCALER (16BIT, 50MHZ)	400	POLON	1	/76	
	24 BIT SCALER (15MHZ)	CAM 2.01	METRIMPEX	1	/72	
	MINISCALER (2X16BIT, 30MHZ, SEPARATE GATES AND EXTERNAL RESET, NIM LEVELS)	002	NUCL. ENTERPRISES	1		
	MINISCALER (2X16BIT, 30MHZ, SEPARATE GATES AND EXT RESET, NIM LEVELS)	C 104	RDT	1	/71	
	DUAL 150 MHZ 16 BIT SCALER (ONE 50 OHMS, ONE UNTERMINATED NIM INPUT PER SCALER)	2S 2024/16	SEN	1	/70	
	QUAD SCALER (4X12 OR 2X24 BIT, 15MHZ)	CAM 2.02	METRIMPEX	1	/72	
	DOUBLE SCALER (24/16BIT, 50MHZ, 2 I/P & 3 GATE MODES, INHIBIT, P1-OVERFLOW)	C-DS-24	WENZEL ELEKTRONIK	1	/72	
	DUAL 150 MHZ 24 BIT SCALER (ONE 50 OHMS, ONE UNTERMINATED NIM INPUT PER SCALER)	2S 2024/24	SEN	1	/70	
	QUAD CAMAC SCALER (4X16BIT OR 2X32BIT, 40 MHZ)	1004	BORER	1	/76	
	QUAD CAMAC SCALER (4X16BIT OR 2X32BIT, 100 MHZ)	1004A	BORER	1	/75	
	TIME DIGITIZER (4X16BIT, 50MHZ CLOCK, WITH CENTRE FINDER, USABLE WITH PRE-AMP 511)	1005	BORER	1	/72	
	SERIAL REGISTER (4X16BIT, 2X32BIT SELECTABLE, 25MHZ, COMMON GATE, NIM LEVELS)	SR 1605	GEC-ELLIOTT	1	/71	
	MICROSCALER (4X16 BIT, 25MHZ, OPTIMIZED INPUT, 3 NSEC, GIVES TYP 80MHZ COUNTING)	003-4	NUCL. ENTERPRISES	1	/71	(5)
	MICROSCALER (4X16BIT, 2X32BIT SELECTABLE, 25MHZ, COMMON GATE, NIM LEVELS)	C 102	RDT	1	/71	
	4X16 BIT BINARY BLIND SCALER (50 MHZ, 2X32BIT SELECTABLE, COMMON GATE, NIM/TTL)	J EB 20	SCHLUMBERGER	1	/71	
	FOUR-FOLD SCALER (4X16BIT, 2X32BIT SELECTABLE, 50MHZ, COMMON GATE, NIM LEVELS)	4 S 2003/50	SEN	1	/69	
	FOUR-FOLD CAMAC SCALER (4X16BIT, 40MHZ, ONE 50 OHMS, ONE HI-Z NIM I/P PER SCALER)	4 S 2004	SEN	1	/70	
	TIME DIGITIZER (4X16BIT, CLOCK RATE 70/85MHZ, WITH CENTER FINDING LOGIC)	TD 2031	SEN	1	/72	
	TIME DIGITIZER (4X16BIT, CLOCK RATE 70/85MHZ, NIM LEVELS)	TD 2041	SEN	1	/72	(4)
	SERIAL REGISTER (4X16BIT, 2X32BIT SELECT- ABLE, 100MHZ, COMMON GATE, NIM LEVELS)	SR 1608	GEC-ELLIOTT	1	/71	
	FOUR-FOLD SCALER (4X16BIT, 2X32BIT SELECT- ABLE, 100MHZ, COMMON GATE, NIM LEVELS)	4 S 2003/100	SEN	1	/70	
	QUAD SCALER (4X24BIT, 50MHZ, DATAWAY AND/OR EXT FAST INHIBIT, NIM LEVELS)	S424S	EG&G/ORTEC	1		(7)
	SCALER-TIMER (4X24BIT, INT. 1MHZ CRYSTAL OSCILLATOR, RESOLUTION 10MHZ)	CAM 5.02	METRIMPEX	1	/73	
	QUAD COUNTING REGISTER (4X24BIT, NIM INPUT TTL INHIBIT IN, TTL CARRY AND OVF OUT)	709-2	NUCL. ENTERPRISES	1	/71	
	SCALER (4X24BIT, 50MHZ)	9051	NUCL. ENTERPRISES	1	/73	
	QUAD SCALER (4X24BIT, 150/125MHZ, DATAWAY AND/OR EXT FAST INHIBIT, NIM LEVELS)	S424B	EG&G/ORTEC	1	/71	
	QUAD SCALER (4X24BIT, 200MHZ, DATAWAY AND/OR EXT FAST INHIBIT, NIM LEVELS)	S424F	EG&G/ORTEC	1		
	QUAD SCALER (4X24BIT, 125MHZ, INTERRUPT STRUCTURE, INDIVIDUAL INHIBIT INPUTS)	S1	JOERGER	1	/72	(5)
	QUAD SCALER (4X24BIT, 200MHZ, INTERRUPT STRUCTURE, INDIVIDUAL INHIBIT INPUTS)	S1-1	JOERGER	1	/73	
	QUAD 100MHZ SCALER (4X24BIT, DISCR LEVEL -0.5V, TIME-INTERVAL APPL, NIM INHIB I/P)	85A	JORWAY	1	/71	(2)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	QUAD SCALER (4X24BIT,300MHZ, 7-SEGMENT DISPLAY/SCALER, OVF GIVES LAM)	JEA 30	SCHLUMBERGER	3	/76	
	QUAD BLIND SCALER (4 X 24BIT, 300MHZ)	JEB 30	SCHLUMBERGER	1	/76	
	TIME DIGITIZER (6 CHANNELS,16 BITS, 100 MHZ CLOCK RATE)	TD	JOERGER	1	/74	(11)
	12-CHANNEL 100MHZ SCALER (16BIT,-0.5V I/P THR, FAST CLEAR, CASCADABLE, LAM)	2552	LRS-LECROY	1	/75	
	12-CHANNEL 16 BIT SCALER (CERN SPS2135)	9054	NUCL. ENTERPRISES	1		(10)
	HEX TTL/NIM 50 MHZ SCALER	3610	KINETIC SYSTEMS	1	/73	
	HEX NIM 100 MHZ SCALER	3615	KINETIC SYSTEMS	1	/73	(8)
	12-CHANNEL 100 MHZ SCALER(12X24BIT,-0.5V I/P THR, COMMON FAST CLEAR & INHIB, NIM)	2551	LRS-LECROY	1	/74	(12)
.112 SIMPLE SERIAL DECADE REGISTERS						
	1X6 BCD DECADE SCALER (30 MHZ, BUILT-IN DISPLAY)	J EA 20	SCHLUMBERGER	1	/73	
	QUAD BCD SCALER (4X6 DECADES,30MHZ)	9021	NUCL. ENTERPRISES	1	/71	
	HEX COUNTING REGISTER (6X24BIT, 100MHZ NIM & TTL LEVELS, TTL CARRY OVF, BCD)	321	HYTEC	1	/74	
.113 PRESET SERIAL BINARY REGISTERS						
N	DUAL PRESET SCALER (2 X 16 BIT NIM FAST LOGIC LEVELS)	PSG16	EG&G/ORTEC	1	/73	
N	CAMAC DUAL PRESET COUNTER	CDPC MPS 2002	HENESA	1	/75	
	PRESETTABLE COUNTER (DUAL, 24BIT, SEPARATE GATES)	420A	POLON	1	/75	
	PRESET COUNTING REGISTER (16BIT,10MHZ, NIM/TTL I/P,TTL INHIB + O/P,DATAWAY SET)	7039-1	NUCL. ENTERPRISES	1	/78	
	PRESET SCALER (24BIT)	CAM 2.04	METRIMPEX	1	/74	
	PRESET SCALER(24/16BIT,50MHZ,DATAW. SET, BUFFER,2 I/P & 3 GATE MODES,INHIB,OVFLO)	C-PS-24	WENZEL ELEKTRONIK	1	/72	
	BIN. PRESET SCALER/BCD-DISPLAY(24BIT/8DEC 50MHZ,DATAWAY SET,2I/P&GATE MODES,INHIB)	C-SD-24	WENZEL ELEKTRONIK	1	/75	(14)
	DUAL PRESET COUNTING REGISTER(16BIT BIN)	2204	BI RA SYSTEMS	1	/73	
	DUAL PRESET COUNTER/TIMER (2X16/24BIT, 25 MHZ MIN, SELF RELOADABLE)	1006	BORER	1	/74	
	2X24 BIT PRESET SCALER (100MHZ COUNTING)	J EP 30	SCHLUMBERGER	1	/73	
	PRESET QUAD BINARY COUNTER (4X24BIT, 75 MHZ, NIM & TTL LEVELS, TTL CARRY OVF) (SAME BUT 50 MHZ)	310 350	HYTEC	1 1	/73 /74	
.114 PRESET SERIAL DECADE REGISTERS						
	REAL TIME CLOCK, LIVE TIME INTEGRATOR, PRESET TIMER	RC014	EG&G/ORTEC	1	/73	
	REAL TIME CLOCK (3.8 USEC TO 18.2 HRS, PRESET-TIME AND PRESET-COUNT MODES)	RTC 2014	SEN	1	/71	
	6 BCD DECADE SCALER (MANUAL AND DATAWAY PRESET,1 MHZ, START/STOP OUTPUT)	J EP 20	SCHLUMBERGER	2	/71	
	PRESET SCALER (20MHZ,8DECADE BCD,7 SEGM LED INDICATES CONTENTS AND PRESET HQ)	PSR 0801	GEC-ELLIOTT	1	/72	(7)
	PRESET SCALER(10MHZ,8 DECADE BCD,DISPLAY OF 2 SIGNIF NUMBERS+EXP,MAN PRESET,NIM)	C 103	RDT	3	/71	
	DUAL PRESET COUNTING REGISTER(4 DECADES)	2204	BI RA SYSTEMS	1	/73	
	PRESET QUAD DECADE COUNTER (4X6 DECADES, 75 MHZ, NIM & TTL LEVELS, TTL CARRY OVF) (SAME BUT 50 MHZ)	311 351	HYTEC	1 1	/73 /74	
.117 OTHER DIGITAL SERIAL INPUT MODULES (BI-DIRECTIONAL SEQUENTIAL,SHIFT TYPES)						
	INCREMENTAL ENCODER INPUT (ACCEPTS QUADRATURE INPUTS, 24 BITS)	IE	JOERGER	1	/75	(14)
	UP/DOWN PRESETTABLE COUNTER(24BIT,10MHZ, GATE AND PULSE BURST OUTPUTS)	S2	JOERGER	1	/72	(5)
	UP/DOWN PRESETTABLE COUNTER(6 BCD DIGITS 10MHZ, MANUAL AND DATAWAY PRESET)	S2-1	JOERGER	1	/73	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	QUAD PRESETTABLE UP-DOWN COUNTER	3640	KINETIC SYSTEMS	1	/73	
	DUAL INCREMENTAL POSITION ENCODER (2X20 BIT X-Y DIGITIZATION BY UP-DOWN COUNTER)	2IPE 2019	SEN	1	/71	
	TOGGLING SCALER/TIMER (CONTINUOUS COUNTING WITH NO CHANGEVER LOSS)	0311	SENSION	1	/75	
	.12 DIGITAL PARALLEL INPUT MODULES --STORING AND NON-STORING REGISTERS, COINC. LATCH, LAM, STATUS ETC					
	.121 NON-STORING REGISTERS (GATES)					
	PARALLEL INPUT GATE (GERN SPS2133, 16BIT)	9049A	NUCL. ENTERPRISES	1		(10)
	INPUT GATE (24BIT, SOURCE SELECTION BY 6BIT OUTPUT, DATAWAY GEN STROBE OUT)	207	JORWAY	1	/74	(8)
	INPUT GATE 24-BIT	3420	KINETIC SYSTEMS	1	/71	(4)
	PARALLEL INPUT GATE (24BIT)	CAM 2.07	METRIMPEX	1	/74	
	PARALLEL INPUT GATE (24 BIT)	9049B	NUCL. ENTERPRISES	1		(10)
	24-BIT ISOLATED INPUT GATE	3471	KINETIC SYSTEMS	1	/73	
C	STATIC DIGITAL INPUT (2X16BIT, TTL)	C 76451-A8-A2	SIEMENS	1	/73	(6)
	DUAL PARALLEL STROBED INPUT GATE (2X24BIT HANDSHAKE MODE TRANSFER TO DATAWAY, TTL)	61	JORWAY	1	/70	
	DUAL PARALLEL INPUT GATE (2X24BIT, NON-INTERLOCK CONTROL TRANSF TO DATAWAY, TTL)	61-1	JORWAY	1	/70	
	INPUT GATE DUAL 24 BIT	3472	KINETIC SYSTEMS	1		
	INPUT GATE (2X24BIT STATIC DATA, INTEGR FOR 1USEC, TTL LEVELS)	321	POLON	1	/74	
	INPUT GATE (2X24BIT STATIC DATA, INTEGR FOR 10USEC, TTL LEVELS) (SAME, INTEGRATION FOR 5MSEC)	321A	POLON	1	/74	
		321B		1	/74	
	INPUT REGISTER DUAL 24 BIT	9069 (B)	NUCL. ENTERPRISES	1	8/76	
	PARALLEL INPUT GATE (3X16BIT INPUT FROM ISOLATING CONTACTS)	1061	BORER	1	/72	(4)
	3X16-BIT INPUT GATE (INPUTS ISOLATED BY OPTO-COUPPLERS)	1063	BORER	1	/73	(8)
	DIGITAL INPUT REGISTER WITH OPTO COUPLER (4X8BIT PARALLEL INPUT GATES, WITH L) WITH FRONT PANEL CONNECTOR	DO 200-2203	DORNIER	1	/72	
		DO 200-2203		1	/72	
	256X24BIT PROM MODULE FOR 7025PDC BRANCH	CS0088	NUCL. ENTERPRISES	1	6/76	
	DIGITAL INPUT REGISTER (5X8BIT PARALL INPUT GATES, 5TH BYTE SETS L, TTL, 1=H) WITH FRONT PANEL CONNECTOR (MODULE WITH ONLY LOGIC BOARD)	DO 200-2201	DORNIER	1	/72	
		DO 200-2201		1	/72	
		DO 200-2000		1	/73	
	DIGITAL INPUT REGISTER (5X8BIT PARALL INPUT GATES, 5TH BYTE SETS L, HLL, 1=H) WITH FRONT PANEL CONNECTOR	DO 200-2202	DORNIER	1	/72	
		DO 200-2202		1	/72	
	PARALLEL INPUT GATE (16X16BIT, TTL, 1=LOW)	IG 25601	GEC-ELLIOTT	2	/72	
	128 BIT RECEIVER (ADDRESSABLE AS 8 16BIT WORDS OR 128 1-BIT WORDS)	C 341	INFORMATEK	1	/73	
	.122 STORING REGISTERS					
	INPUT REGISTER (2X24BIT, TTL LEVELS, HANDSHAKE)	305	POLON	1	10/76	
	2 X 24BIT INPUT REG. WITH OPT. COUPLING	JR0 10	SCHLUMBERGER	1	/76	
C	DYN. DIG. INPUT (16BIT, TTL, LAM IF INPUT 0-1 OR 1-0 OR BOTH)	C 76451-A17-A2	SIEMENS	1	/73	(6)
C	DYNAMIC DIGITAL INPUT 16BIT FLOATING I/P	C 76451-A17-A1	SIEMENS	1	/73	(6)
	PARALLEL-INPUT-REGISTER (SINGLE 16/24BIT OPT, READY SIGNALS, I/O TTL, CONTROL BUS)	MS PI 2 1230/1	AEG-TELEFUNKEN	1	/70	(1)
	CONTACT SENSE (24BIT ISOLATED INPUT REG, SENSES 12, 24, 48VDC OR 120VAC INPUTS)	CS	JOERGER	1	/75	
	CONTACT SENSE (24BIT ISOLATED INPUT REG, SENSES STATE OF SERIES SWITCHES)	CS-1		1	/75	
	INPUT REGISTER 24-BIT	3470	KINETIC SYSTEMS	1	/71	(4)
	INPUT REGISTER (24 INPUTS, + STROBE, OPTICALLY ISOLATED)	IR-2	JOERGER	1	/74	(11)
	BALANCED INPUT REGISTER WITH ADDRESSING	3430	KINETIC SYSTEMS	1	/72	(8)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	DUAL INPUT REGISTER(2X16BIT,LAM & STROBE I/P & DATA-READ-STROBE O/P PER CHANNEL) CAMAC UNTERM. I/P'S VIA SCHMITT TRIGGERS I/P FILTER RESPONSE 1USEC TO 10MS	PR 1610 SERIES PR 1611	GEC-ELLIOTT	1	/73	
	DUAL 16 BIT INPUT REGISTER (TTL LEVELS, CERN SPECS 072)	ZIR 2002	SEN	1	/72	
	DUAL 16 BIT INPUT REGISTER(EXT STROBE OR DATAWAY COMMAND STORES DATA,TTL LEVELS)	ZIR 2010	SEN	1	/70	
C	DIGITAL INPUT (2X16BIT FLOATING INPUT)	C 76451-A8-A1	SIEMENS	1	/73	(6)
	DUAL 24 BIT PARALLEL INPUT REGISTER(TTL)	2322	BI RA SYSTEMS	1	/73	
	DUAL 24 BIT INPUT REGISTER (TTL, HANDSHAKE)	RI-224	EG&G/ORTEC	1	/72	
	DUAL INPUT REGISTER(2X24BIT,LAM & STROBE I/P & DATA-READ-STROBE O/P PER CHANNEL) CAMAC UNTERM. I/P'S VIA SCHMITT TRIGGERS I/P FILTER RESPONSE 1USEC TO 10MS (SAME BUT WITH TWISTED PAIR INPUTS) (SAME BUT WITH OPTICAL ISOLATION INPUT, LOGIC 1 = 5V OR 12MA)	PR 2400 SERIES PR 2401 PR 2402 PR 2403	GEC-ELLIOTT	1	/73	
	DUAL INPUT REGISTER (2X24BIT,I/P INTEGR TTL, FULL LAM, OUTPUT STROBES)	220	HYTEC	1	/73	
	INPUT REGISTER (2X24BIT, 3 MODES OF DATA ENTRY, LED DISPLAY)	IR	JOERGER	1	/72	(7)
	DUAL PARALLEL INPUT REGISTER(2X24BIT,EXT LOAD REQUEST,4 OPER MODES,TTL LEVELS)	60 A	JORWAY	1	/70	
	24-BIT DUAL PARALLEL INPUT REGISTER (A HAS LO-Z, B HAS UNTERMINATED INPUT)	9041A/9041B	NUCL. ENTERPRISES	1	/72	(7)
	PARALLEL INPUT REGISTER (2X24 BITS)	J RE 10	SCHLUMBERGER	1	/73	(7)
	DUAL INPUT REG.(2X24BIT,SEP.TIMING,LOGIC BITWISE POS/NEG,4TIMING& 3DATA IN MODES)	C-IC-48	WENZEL ELEKTRONIK	1	/75	(14)
	QUAD 24 BIT INPUT REGISTER (4X24, HAND- SHAKE DATA TRANSFER, 3 DATA ENTRY MODES)	QIR	JOERGER	1	/75	(14)
	DIGITAL INPUT REGISTER, EXTERNAL STROBE (4X8BIT INPUT LATCHES, 1X8BIT SET LAM) WITH FRONT PANEL CONNECTOR	DO 200-2204 DO 200-2204	DORNIER	1	/73	
	.123 TERMINATED SIGNAL INPUT REGISTERS (GOING. LATCH, PATTERN ETC)					
	COINCIDENCE LATCH (24 NIM INPUTS WITH COMMON STROBE, EXT RESET, 2NSEC OVERLAP)	C124	EG&G/ORTEC	2		
N	INTERRUPT REGISTER 12-INPUT STROBE NIM FAST LOGIC LEVELS	IR026	EG&G/ORTEC	1	/73	
	12 BIT PARALLEL INPUT REGISTER (NIM)	2351	BI RA SYSTEMS	1	/73	
	STROBED INPUT REGISTER (12BIT COINC AND LATCH,NIM LEVELS,PATTERN AND L-REQ APPL)	SIR 2026	SEN	1	/70	
	16BIT DISCRIMINATOR-COINCIDENCE REGISTER	2352	BI RA SYSTEMS	2	/75	
	FAST COINCIDENCE LATCH(16BIT,DISCR I/P, MIN 2 NSEC STROBE-SIGNAL OVERLAP)	64	JORWAY	1	/71	(1)
	16 FOLD DCR (16 DISCR, COMMON STROBE, -70MV THRESHOLD, FAST SUMMING OUTPUTS)	2340B	LRS-LECROY	2	/71	(6)
	16-CH COINCIDENCE REGISTER (STROBE I/P, 2NS OVERLAP,FAST SUM O/P AND CLEAR,NIM)	2341S	LRS-LECROY	1	/71	(4)
	16 CHANNEL STROBED COINCIDENCE (16 COINC INPUTS, COINC & LAM OUTPUT, 10NS RESOL.)	CAM 8.05	METRIMPEX	2	/74	
	PATTERN UNIT (16 INDIV NIM INPUTS,COMMON NIM GATE)	021	NUCL. ENTERPRISES	2	/71	(5)
	PATTERN UNIT(16BIT,I/P STROBED WITH COMMON GATE,10 NSEC OVERLAP,NIM LEVELS)	C 101	ROT	2	/71	
	16 BIT PATTERN UNIT (NIM I/P AND GATE)	J PU 10	SCHLUMBERGER	1	/72	
	PATTERN UNIT 16 BIT (16 INDIVIDUAL NIM INPUTS,COMMON NIM GATE, CERN SPECS 021)	16P 2007	SEN	2	/70	
	16 BIT PATTERN UNIT (CERN 071, 16 INDIV NIM INPUTS,COMMON NIM GATE,LED DISPLAY)	16P 2047	SEN	1	/72	(11)
	PARALLEL INPUT REGISTER (24BIT)	CAM 2.05	METRIMPEX	1	/74	
	COINCIDENCE BUFFER (2X12BIT,ONE STROBE PER 12BITS,MIN 2NS OVERLAP,NIM INPUTS)	C212	EG&G/ORTEC	2	/71	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
.124 MANUAL INPUT MODULES (WORD GENERATORS, PARAMETER UNITS)						
N	QUAD WORD GENERATOR (SWITCHES ON FRONT PANEL AND P.C. BOARD)	80	HYTEC	1	/76	
	SWITCHBOARD MEMORY INTERFACE (FOR SWITCHBOARD TYPE 230-1 & 230-2)	230	POLON	1	9/76	
	SWITCHBOARD MEMORY (16 WORDS, 18 BIT, USABLE WITH 230 INTERFACE)	230-1	POLON		9/76	
	SWITCHBOARD MEMORY ADAPTER (EXPANDER)	230-2	POLON		9/76	
	WORD GENERATOR (24 BIT)	233	POLON	1	/75	
	PARAMETER UNIT 12 BIT (PROVIDES 12 BIT COMMUNICATION, PUSH BUTTON L-REQUEST)	P 2005	SEN	1	/70	
	MANUAL INPUT REGISTER (INPUTS A HAND-SET 16-BIT WORD, MANUAL AND ELECTR LAM I/P)	1041	BORER	1	/73	(8)
	24 BIT PARAMETER UNIT	2501	BI RA SYSTEMS	1	/73	
	WORD GENERATOR (24 BIT WORD MANUALLY SET BY SWITCHES)	WG 2401	GEC-ELLIOTT	1	/71	
	DATA SWITCHES (16/24 BITS, READABLE + CONTENT ADDR)	C 322	INFORMATEK	1	/72	
	MANUAL INPUT/OUTPUT (TEST UNIT PROVIDES MANUAL DATA INPUT & VISUAL DATA OUTPUT)	MI/O	JOERGER	1	/75	
	MANUAL INPUT/OUTPUT REGISTER (24 BITS, SWITCH I/P + LAM, 24 LED O/P REGISTER)	201	JORWAY	1	/74	(11)
N	6-DIGIT MANUAL INPUT	3462	KINETIC SYSTEMS	2	/76	
	WORD GENERATOR (24 BITS OF BINARY DATA, SWITCH SELECTED)	9020	NUCL. ENTERPRISES	1	/71	(2)
	MANUAL REGISTER (FOUR 16 BIT WORDS)	231	POLON	3	/74	
	PARAMETER UNIT (QUAD 4-DECADE BCD PARAMETERS MANUALLY SET)	022	NUCL. ENTERPRISES	4	/71	(2)
	PARAMETER UNIT (QUAD 4 DECADE BCD PARAMETERS MANUALLY SET)	C 105	ROD	4	/71	
.127 OTHER PARALLEL INPUT MODULES (INCL. LAM AND STATUS REGISTERS, SEE .232 FOR LAM GRADER)						
	16-BIT INTERRUPT REGISTER (STATUS COMPARE CHANGE GIVES LAM UNLESS MASKED)	1051A	BORER	1	/72	
	PRIORITY INPUT REGISTER (12 BITS ORED TO LAM, FAST COINC LATCH APPL, MASK REGISTER)	63	JORWAY	2	/70	
	INPUT REGISTER (12 BIT, ORED TO LAM, COINCIDENCE LATCH APPL, NIM INPUTS)	65	JORWAY	1	/74	
	INTERRUPT REQUEST REGISTER (16 INPUTS, ANY INPUT GIVES LAM)	GAM 2.09	METRIMPEX	1	/72	
	INTERRUPT REQUEST REGISTER (8 CHANNELS)	9608	NUCL. ENTERPRISES	0		(14)
	INTERRUPT REQUEST REGISTER	EC 218	NUCL. ENTERPRISES	1		
	EXTERNAL LAM REGISTER (24 BIT, MASKING CAPABILITY)	303	POLON	1	10/76	
	INTERRUPT ALARM REGISTER (16 BITS, INDIVIDUALLY MASKABLE)	J IR 10	SCHLUMBERGER	1	/74	(11)
	64 LINE SURVEYOR (SINGLE OR CONTINUOUS SURVEY CYCLES, 3 SURVEY MODES)	64LS 2052	SEN	1		(9)
N	LINE SURVEYOR (128 LINES, 300NSEC SCANNING TIME/LINE, PROGR. LAM-COND)	128 LS 2079	SEN	1		
	STATUS INTERRUPT (24 BIT, I/P & LATCH & LAM MASK, GROUP SEL-LAM-TEST, VAR. LOGIC & LEVEL)	C-SI-24	WENZEL ELEKTRONIK	1	/74	(12)
.13 DIGITAL OUTPUT MODULES --SERIAL/ CLOCKS, TIMERS, PULSE GENERATORS, PARALLEL/ TTL OUTPUT, DRIVERS						
	CAMAC CLOCK	CU 1	WEHRMANN	1	/75	
.131 SERIAL OUTPUT MODULES (CLOCKS, TIMERS, PULSE GEN)						
N	TIMER SCALER 24 BIT, 100 MHZ	TS101/201	GEC-ELLIOTT	1	/77	
N	REAL TIME CLOCK, TIME RANGE : 4 MICROSEC. TO 18 HOURS.	RTC 018	GEC-ELLIOTT	1	/77	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	PRESET SCALER (LEVEL OR PULSE TRAIN O/P, DURATION SET BY COMMAND, SINGLE & REPEAT)	PSR 0801	GEC-ELLIOTT	1	/73	
	CLOCK PULSE GENERATOR (10 FIX & 1 PROGRAMMABLE O/P, INT. 1MHZ, EXT. MAX 5MHZ)	CAM 5.01	METRIMPEX	1	/73	
	SCALER-TIMER (4X24BIT, INT. 1MHZ CRYSTAL OSCILLATOR, RESOLUTION 10MHZ)	CAM 5.02	METRIMPEX	2	/73	
N	DELAYED PULSE GENERATOR (4 SEPARATE DELAYS, PROGRAM SET IN STEPS OF 10NSEC)	0377	SENSION	1	03/77	
	CRYSTAL CONTROLLED PULSE GENERATOR (7 DECADES-1HZ TO 1MHZ-500NS PULSES OUT, TTL)	PG 0001	GEC-ELLIOTT	1	/71	
	REAL TIME CLOCK (4SEC CLOCK/5MSEC STOP WATCH)	C 320	INFORMATEK	1	/72	
	CLOCK GENERATOR (INT 10MHZ, EXT 50MHZ, 8 DECADE STEPS, PLUS PROGRAMMABLE OUTPUT)	CG	JOERGER	1	/72	(7)
	GATED CLOCK (10MHZ TO 1HZ, INT-EXT CLOCK, SYNCHRONOUS GATING)	217	JORWAY	1	/74	(11)
	CLOCK PULSE GENERATOR (7 OUTPUTS-1HZ TO 1MHZ-IN DECADE STEPS, 10MHZ EXT IN, TTL)	7C19-1	NUCL. ENTERPRISES	1	/70	
	CLOCK GENERATOR (INT 1MHZ, EXT 10MHZ, 7 DECADES 1HZ-1MHZ TTL, .5USEC WIDTH O/P)	730A	POLON	1	/74	
	CLOCK PULSE GENERATOR (7 DECADES-1HZ TO 1MHZ-500 NSEC PULSES OUT, TTL AND NIM)	C 109	ROD	1	/71	
	1 HZ - 1 MHZ QUARTZ CLOCK (7 O/P - 1HZ TO 1MHZ-200 TO 800 NSEC WIDTH, TTL LEVEL)	J HQ 10	SCHLUMBERGER	1	/71	
	QUARTZ-CLOCK WITH 2 TIMER FUNCTIONS	C 76451-A14-A2	SIEMENS	1	/72	
	CAMAC-CLOCK-GENERATOR (7 DECADES-10MHZ TO 1HZ, 50/500 NSEC O/P PULSES, 2.8V/50 OHMS)	C-CG-10	WENZEL ELEKTRONIK	1	/71	
	CLOCK/TIMER (0.001S TO 10 HRS TIME INTERVAL, TIME-OF-DAY OUTPUT)	1411	BORER	1	/72	(3)
	REAL TIME CLOCK, LIVE TIME INTEGRATOR, PRESET TIMER	RC014	EG&G/ORTEC	1	/73	
	REAL TIME CLOCK (COUNTS .1 SEC TO 999 DAYS, DISPLAYS HRS/MIN/SEC, 50/60HZ GEN)	RTC	JOERGER	2	/73	(7)
	WATCHDOG TIMER (MONITORS SYSTEM ACTIVITY GENERATES AUDIO ALARM & CONTACT CLOSURE)	WT	JOERGER	1	/75	(14)
	REAL TIME CLOCK	9064	NUCL. ENTERPRISES	1		(10)
	REAL TIME CLOCK (3.8 USEC TO 18.2 HRS, PRESET-TIME AND PRESET-COUNT MODES)	RTC 2014	SEN	1	/71	
N	REAL TIME CLOCK (100NSEC TO 30HRS, PRESET TIME AND PRESET COUNT MODES)	RTC 2078	SEN	1		
	INTERVAL TIMER/WATCHDOG (100USEC-300SEC INTERVAL, 1 SEC--100 SEC TIMEOUT)	EC 384	SENSION	1	/74	(13)
	DEAD TIME COUNTER	2203	BI RA SYSTEMS	1	/74	
	TIMER MODULE	3655	KINETIC SYSTEMS	1	/73	
	TIME BASE (10 TO 100MHZ IN INCREMENTS OF 10MHZ, USED WITH TD 2031/TD 2041)	TB 2032	SEN	1	/71	
	TEST PULSE GENERATOR (5 TO 50 NSEC NIM O/P PULSE DERIVED FROM S1.F(25) OR EXT)	TPG 0202	GEC-ELLIOTT	1	/71	
	TEST PULSE GENERATOR (NIM PULSE PAIR)	215	JORWAY	1	/75	
	8 CHANNEL DELAY GENERATOR (DELAY 0 TO 99 TIMES CLOCK, DELAYS CASCADABLE)	220	JORWAY	3	/74	
	SERIAL OUTPUT REGISTER (12/16/24 BIT, SCALER OR SHIFT REG, INT. 100HZ & 1MHZ)	CAM 2.11	METRIMPEX	1	/73	
	PRECISION PULSE GENERATOR (0 TO +-10VOUT 1 TO 500US DECAY TIME, 50HZ REP. FREQ.)	1108	POLON	1	11/76	
	DUAL PROGRAMMED PULSE GENERATOR (50HZ/2KHZ/5MHZ PULSE TRAIN, LENGTH BY COMMAND)	2PPG 2016	SEN	1	/71	
.132 PARALLEL OUTPUT REGISTERS (TTL, HTL, NIM ETC)						
N	OUTPUT REGISTER (12 OUTPUTS, NIM FAST LOGIC LEVELS)	IR026	EG&G/ORTEC	1	/73	
N	NIM PULSE ROUTER (CONTAINS 8 DUAL SEQUENTIAL GATING CIRCUITS)	CS 0801	GEC-ELLIOTT	1	/77	
	OUTPUT REGISTER (2X24BIT, TTL LEVELS, HANDSHAKE)	350	POLON	1	10/76	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	12 BIT PARALLEL OUTPUT REGISTER (NIM)	3251	BI RA SYSTEMS	1	/73	
	15 BIT PARALLEL OUTPUT REGISTER (BIT ADDRESSABLE, NIM LEVELS OR PULSES)	C 343	INFORMATEK	1	/73	
	12 BIT OUTPUT REGISTER (DC OR PULSE O/P, UPDATING STROBE OUTPUT, NIM LEVELS)	41	JORWAY	1	/71	(2)
	OUTPUT REGISTER (12BIT, NIM PULSES OR LEVELS OUT)	OR 2027	SEN	1	/70	
	16-BIT DIFFERENTIAL OUTPUT REGISTER	3030	KINETIC SYSTEMS	1	/72	(8)
	PARALLEL OUTPUT REGISTER (24BIT, OUTPUT WITH CAMAC STANDARD)	CAM 2.12-3	METRIMPEX	1	/73	
	OUTPUT REGISTER (24 BIT, 16 MA 5V OUT)	9600A	NUCL. ENTERPRISES	0		(13)
	OUTPUT REGISTER (24BIT, OPTO-COUPLER, 7MA)	9603	NUCL. ENTERPRISES	0		(13)
	PARALLEL OUTPUT REG. (24BIT, NEG/OPT POS TTL, ADJ. DURATION LEVEL, 4 TIMING MODES)	C-0C-24	WENZEL ELEKTRONIK	1	/73	(10)
	DUAL 16 BIT OUTPUT REGISTER (SELECTABLE O/P STAGES ON PLUGABLE PC, FP CONNECTOR)	20R 2051	SEN	1		(9)
	DUAL 24 BIT PARALLEL OUTPUT REGISTER	3222	BI RA SYSTEMS	1	/73	
	OUTPUT REGISTER (2X24BIT DATA OUT, DATA-READY + BUSY FORM HANDSHAKE, TTL)	RO-224	EG&G/ORTEC	1	/72	
	OUTPUT REGISTER (2X24BIT OR 6X8BIT, LED DISPLAY)	OR	JOERGER	1	/72	(7)
	24-BIT DUAL OUTPUT REGISTER	9042	NUCL. ENTERPRISES	1	/72	(7)
	DUAL OUTPUT REGISTER (2X24BIT, DATAWAY READ AND WRITE, HANDSHAKE CONTROL, LO-Z) (SAME BUT HI-Z)	9043A 9043B	NUCL. ENTERPRISES	1 1		(7) (7)
	PARALLEL OUTPUT REGISTER (2X24 BITS)	J RS 10	SCHLUMBERGER	1	/73	(7)
	DIGITAL OUTPUT REGISTER (X8BIT PARALL. OUTPUT REGISTER, NO L, TTL, I=H) WITH FRONT PANEL CONNECTOR (MODULE WITH ONLY LOGIC BOARD)	DO 200-2701 DO 200-2701 DO 200-2500	DORNIER	1 1 1	/72 /72 /73	
	DIGITAL OUTPUT REGISTER (4X8BIT PARALL. OUTPUT REGISTER, HLL 24V) WITH FRONT PANEL CONNECTOR WITH FRONT PANEL CONNECTOR, INVERTING	DO 200-2705 DO 200-2705 DO 200-2706	DORNIER	1 1 1	/73 /73 /73	
	DIGITAL OUTPUT REGISTER (4X8BIT PARALL. OUTPUT REGISTER, HLL 24V) WITH FRONT PANEL CONNECTOR WITH FRONT PANEL CONNECTOR, INVERTING	DO 200-2707 DO 200-2707 DO 200-2708	DORNIER	1 1 1	/73 /73 /73	
	DORNIER MODULES ALSO MARKETED BY SIEMENS		SIEMENS			
	QUAD 24 BIT OUTPUT REGISTER (4X24, HAND-SHAKE DATA TRANSFER, PROG. O/P POLARITY)	QOR	JOERGER	1	/75	(14)
	128 BIT OUTPUT REGISTER (ADDRESSABLE AS 8 16BIT OR 128 1-BIT WORDS)	C 342	INFORMATEK	1	/73	
	.133 PARALLEL OUTPUT DRIVERS (OPEN COLL., RELAY, ETC)					
N	24-WAY RELAY MULTIPLEXER (SINGLE POLE CHANGE-OVER)	9602C	NUCL. ENTERPRISES	1	06/77	
N	LOGIC DRIVER (16BIT, PROGRAMMED OUTPUT LEVEL, LOW= -4VTO+2V, HIGH= 0VTO+18V)	C71451-E5017-A1	SIEMENS	1	/76	
N	COMPARATOR COUNTER (TIME, FREQ & EVENT COUNTS TO 50MHZ, 16BIT DATA WIDTH)	C71451-E5013-A1	SIEMENS	2	/76	
	TRIAC OUTPUT REGISTER (110V OR 220V AC) (8 BITS, 2 AMPS, ZERO VOLTAGE SWITCHING)	LT	JOERGER	1	/74	
	12 BIT OUTPUT REGISTER (RELAY CONTACTS, SELECTIVE SET/CLEAR LAM GENERATION)	240	JORWAY	1	/75	
	8 CHANNEL TIMED TRIAC OUTPUT	3040	KINETIC SYSTEMS	2	/74	(13)
	8 BIT TRIAC OUTPUT REGISTER	3080	KINETIC SYSTEMS	1	/73	
	12-BIT OUTPUT REGISTER (WITH OPTICAL ISOLATION, OPEN COLL O/P, MAX 30V/130MA)	3082	KINETIC SYSTEMS	1		
	12-BIT OUTPUT REGISTER WITH ISOLATED RELAY CONTACTS	3087	KINETIC SYSTEMS	1	/71	(4)
	DRIVER (16BIT, OPEN COLLECTOR OUTPUT VIA MULTIWAY CONNECTOR, MAX 150MA/LINE)	9002	NUCL. ENTERPRISES	1	/71	
	OUTPUT REGISTER (16BIT, 50V/.05A MAX)	360	POLON	1	/73	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	OUTPUT REGISTER (16BIT, 150V/.1A MAX)	360A	POLON	1	/73	
	OUTPUT REGISTER (16BIT, 25V/.5A MAX)	360B	POLON	1	/73	
	16-BIT OUTPUT REGISTER (ISOLATED RELAY CONTACTS & LATCHBACK INPUT)	3094	KINETIC SYSTEMS	1	/74	
	RELAY DRIVER (16 WAY RELAY OUTPUT)	J RD 10	SCHLUMBERGER	1	/73	(8)
	PARALLEL OUTPUT REGISTER (16BIT REED RE- LAY, MAX SWITCHED PWR 10W, 4 TIMING MODES)	C-OR-16	WENZEL ELEKTRONIK	1	/72	(10)
	PARALLEL OUTPUT REGISTER (24BIT, OUTPUT WITH OPEN COLLECTOR, EXT. 30V/100MA)	CAM 2.12-1	METRIMPEX	1	/73	
	PARALLEL OUTPUT REGISTER (24BIT, OUTPUT WITH OPEN COLLECTOR, TTL)	CAM 2.12-2	METRIMPEX	1	/73	
	DRIVER (24BIT OUTPUT REGISTER, SET AND READ BY COMMAND, 24BIT I/P DATA ACCEPTED)	9017	NUCL. ENTERPRISES	1	/71	(1)
	OUTPUT REGISTER (24 BIT, 40 MA 30V OUT) (SAME INVERTED OUTPUTS)	9600B 9600C	NUCL. ENTERPRISES	0 0		(13) (13)
	OUTPUT REGISTER (24 BIT, 1 AMP 60V OUT) (SAME WITH RELAY CONTACTS, MUX CONCEPT) (SAME WITH RELAY CONTACTS, FREE CONTACTS)	9601 9602A 9602B	NUCL. ENTERPRISES	0 0 0		(13) (13) (13)
C	OUTPUT REGISTER (2X16BIT, OPEN COLLECTOR)	1084A	BORER	1	6/76	
	OUTPUT DRIVER (2X16BIT, 40MA SINKING, 1=LO, DATAWAY READ & WRITE, LAM I/P, STROBE O/P) (SAME, 1=HI)	OD 1613 OD 1614	GEC-ELLIOTT	1 1	/72 /72	
	OUTPUT DRIVER (2X16BIT, 125MA SINKING, 1=LO DATAWAY READ & WRITE, LAM I/P, STROBE O/P) (SAME, 1=HI)	OD 1617 OD 1618	GEC-ELLIOTT	1 1	/72 /72	
	OUTPUT DRIVER (2X16BIT, TOTEMPOLE, 30 LOADS DATAWAY READ & WRITE, LAM I/P, STROBE O/P)	OD 1620	GEC-ELLIOTT	1	/72	
	2X16 OR 4X8 BIT OUTPUT REGISTER	J RS 30	SCHLUMBERGER	1	/74	(11)
	DUAL 16 BIT OUTPUT REGISTER (TTL LEVELS, OPEN COLL OUTPUTS VIA CABLE)	20R 2008	SEN	1	/70	
	DUAL OUTPUT DRIVER (200MA SINKING, 24V)	20R 2051HC	SEN	1		(9)
	DUAL OUTPUT DRIVER (HI VOLTAGE DRIVER)	20R 2051HV	SEN	1		(9)
C	DIGITAL OUTPUT (2X16BIT, MAX 30V)	C 76451-A9-A2	SIEMENS	1	/73	(6)
C	OUTPUT REGISTER (2X16BIT VIA ISOLATING CONTACTS WITH READBACK FACILITY)	1082A	BORER	1	6/76	
C	DIGITAL OUTPUT (2X16BIT RELAYS)	C 76451-A9-A1	SIEMENS	1	/73	(6)
	PARALLEL-OUTPUT REGISTER (24BIT, OPEN COLLECTOR OUTPUT, HANDSHAKE FACILITY)	MS PO 2 1230/1	AEG-TELEFUNKEN	1	/72	(4)
	OUTPUT DRIVER (2X24BIT, 40MA SINKING, 1=LO, DATAWAY READ & WRITE, LAM I/P, STROBE O/P) (SAME, 1=HI)	OD 2403 OD 2404	GEC-ELLIOTT	1 1	/72 /72	
	OUTPUT DRIVER (2X24BIT, 125MA SINKING, 1=LO DATAWAY READ & WRITE, LAM I/P, STROBE O/P) (SAME, 1=HI)	OD 2407 OD 2408	GEC-ELLIOTT	1 1	/72 /72	
	OUTPUT DRIVER (2X24BIT, TOTEMPOLE, 30 LOADS DATAWAY READ & WRITE, LAM I/P, STROBE O/P)	OD 2410	GEC-ELLIOTT	1	/72	
	DUAL OUTPUT REGISTER (2X24BIT, OPEN COLL O/P, FULL LAM, OUTPUT STROBES)	200-2	HYTEC	1	/73	
	OUTPUT REGISTER (2X24BIT OR 6X8BIT, 250MA SINKING, DIODE CLAMPED)	OR-1	JOERGER	1	/73	
	DUAL 24 BIT OUTPUT REGISTER (DC OR PULSE O/P, UPDATING O/P STROBE, TTL OPEN COLL)	40	JORWAY	1	/71	(2)
	DUAL 24 BIT OUTPUT REGISTER (DC OR PULSE O/P UPDATING, 300MA SINK, DIODE CLAMPED)	40-2	JORWAY	1	/74	
	DUAL 24-BIT OUTPUT REGISTER (OPEN COLL DRIVERS, MAX 24V OR 250MA, REAR OUTPUTS)	3072	KINETIC SYSTEMS	1		
	DIGITAL OUTPUT REGISTER (4X8BIT PARALL. OUTPUT REGISTER, NO L, OPEN COLL O/P, 1=H) WITH FRONT PANEL CONNECTOR, 1=HI WITH FRONT PANEL CONNECTOR, 1=LO	DO 200-2702 DO 200-2702 DO 200-2703	DORNIER	1 1 1	/72 /72 /72	
	DIGITAL OUTPUT REGISTER WITH REED RELAYS (4X8BIT OUTPUT REG, OPEN CONTACT=0) WITH FRONT PANEL CONNECTOR	DO 200-2704 DO 200-2704	DORNIER	1 1	/71 /71	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	.14 DIGITAL I/O, PERIPHERAL AND INSTRUMENTATION INTER- FACING MODULES --SERIAL AND PARALLEL I/O REGS, PRINTER-,TAPE-,DVM-,PLOTTER- AND ANALYSER INTER- FACES,STEP-MOTOR DRIVERS,SUPPLY CTR,DISPLAYS					
	COLOR DISPLAY CONTROLLER (SMALL PROGRAMMING EFFORTS, SUITED FOR OUTPUT OF FAST-RUNNING PICTURES)	DO 200-2931	DORNIER	12	/75	
N	GPIB INTERFACE	3388	KINETIC SYSTEMS	1	/77	
	.141 SERIAL INPUT/OUTPUT MODULES (GENERAL PURPOSE)					
	SERIAL IN/OUT MODULE (TRANSFER UP TO 1KM CONTAINS A DATA TRANSMITTER, DATA RECEIVER AND 8 CONTROL OUTPUTS)	DO 200-2916	DORNIER	1	/75	
	SERIAL INPUT/OUTPUT REGISTER 16BIT CODED	9063	NUCL. ENTERPRISES	1	/74	(13)
	SERIAL BRANCH ADAPTOR 20MA CURRENT LOOP	9084	NUCL. ENTERPRISES	1	8/76	
	COLOUR DISPLAY DRIVER,JOYSTICK INTERFACE	9062/J	NUCL. ENTERPRISES	2	8/76	
	TELETYPE INTERFACE 20MA 110 BAUD TO 9600 BAUD SWITCHED	9047	NUCL. ENTERPRISES	1	10/76	
	.142 PARALLEL I/O REGISTERS (GENERAL PURPOSE)					
	UNIVERSAL INPUT/OUTPUT REGISTER (2X16BIT INPUT, 1X16BIT OUTPUT, RELAYS OPTIONAL)	1031A	BORER	1	/75	
	UNIVERSAL IN/OUT MODULE (16BIT DATA IN) OUT, 6BIT STATUS TO AND FROM UNIT; 4 INTERRUPTS, 3 STROBES TO UNIT)	DO 200-2915	DORNIER	1	/75	
N	INPUT/OUTPUT REGISTERS	I/O 612	GEC-ELLIOTT	0	/77	
	INPUT RELAY ADAPTER (24BIT I/P RELAY COILS, O/P TO CAM 2.05/CAM 2.09)	CAM 8.02-1	METRIMPEX	2	/75	
	OUTPUT RELAY ADAPTER (24BIT, I/P RELAY COILS TO CAM 2.12-1, RELAY CONTACTS O/P)	CAM 8.02-2	METRIMPEX	2	/75	
	OPTOISOLATOR (24 INPUTS, OUTPUTS MAY BE CONNECTED TO CAM 2.05/CAM 2.09)	CAM 8.09-1	METRIMPEX	2	/74	
	UNIVERSAL INPUT/OUTPUT REGISTER	9066	NUCL. ENTERPRISES	1	/75	
	16 BIT INPUT/OUTPUT REGISTER (O/P STAGES ON PLUGGABLE PC, FP CONNECTOR)	IOR 2053	SEN	1	/74	(11)
	INPUT/OUTPUT REGISTER (24 BITS IN, 12 BITS OUT, OPTICALLY COUPLED)	IOR-1	JOERGER	1	/74	(11)
C	INPUT/OUTPUT REGISTER (24BIT,INTEGRATED SCHMITT INPUT),2 OUT STROBES,2 IN LAMS	400	HYTEC	1	/75	
N	AS FOR 400 BUT ADDITIONNAL 8 OUTPUTS BIT SETTABLE	410	HYTEC	1	/75	
	DUAL INPUT DUAL OUTPUT REGISTER (16BIT, TTL IN, OPEN COLL TTL OUT, MAX 40MA,30V)	C110	RDT	1	/72	
	INPUT/OUTPUT REGISTER(2X24BIT IN,2X12BIT OUT, 3 ENTRY MODES, LED DISPLAY)	IR-1	JOERGER	1	/72	(7)
	BUFFER STORE/REGISTER (32X24BIT,WITH EXTERNAL ADDRESSING FACILITY)	104	HYTEC	1		
	(SAME, 32X24BIT, WITHOUT EXT ADDR)	100		1		
	(SAME, 32X16BIT, WITHOUT EXT ADDR)	101		1	/72	
	BUFFER STORE/REGISTER (32X16BIT, WITH EXTERNAL ADDRESSING FACILITY)	105	HYTEC	1		
	(SAME, 16X24BIT, WITHOUT EXT ADDR)	102		1	/72	
	(SAME, 16X16BIT, WITHOUT EXT ADDR)	103		1	/73	
	.143 PERIPHERAL INTERFACING MODULES (FOR TTY, TAPE ETC)					
N	CARD READER DRIVER FOR DOCUMENTATION M600 CARD READER	EC 364	GEC-ELLIOTT	1	/77	
N	FLOPPY DISC DRIVER	FDD 01	GEC-ELLIOTT	0		
N	LINE PRINTER DRIVER INTERFACE FOR TALLY SERIES 2000 LINE PRINTER	EC 366	GEC-ELLIOTT	2	/77	
	TELETYPE INTERFACE (FOR 5 TRACK CCITT NO 2 CODE)	502	POLON	1	6/76	
	TAPE READER INTERFACE (FOR CT 2000 SERIES TAPE READERS)	526	POLON	1	6/76	
	PUNCH TAPE FAST READER CONTROL	JLB 20	SCHLUMBERGER	6	/76	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	C PUNCH TAPE FAST READER CONTROL CRATE	JLB 21	SCHLUMBERGER	NA	/76	
	FLOPPY DISC INTERFACE MODULE	JFD 10	SCHLUMBERGER	1	/76	
N	CASSETTE DRIVE (SINGLE,CASSETTE TYPE 3M)	C CK 20	SCHLUMBERGER		/76	
N	CASSETTE DRIVE (DUAL,CASSETTE TYPE 3M)	C CK 21			/76	
N	CASSETTE INTERFACE	J CK 20		1	/76	
	FLOPPY DISC SYSTEM (UP TO 4 DRIVES, IBM COMPATIBLE)	DS 67	SENSION	2	/76	
	INTERFACE FOR ASR33 TTY,SERIAL DATA LINK	6711	BI RA SYSTEMS	1	/74	
	TELETYPE INTERFACE FOR MODEL 72A	90	JORWAY	2	/71	
	SERIAL DRIVER/RECEIVER (TTY, TTX & MODEM INTERFACE, V24 CCITT STANDARD)	CAM 3.04	METRIMPEX	1	/75	
	TELETYPE INTERFACE (FOR ASR 33, SER I/O)	500	POLON	1	/74	
	TERMINAL DRIVER	J TY 20	SCHLUMBERGER	1	/73	(11)
	INTERFACING OUTPUT UNIT(8BIT DATA, CONTR & STATUS REGS, FOR FACIT SP1 INTERFACE)	SP1/ACCEPTOR	ARSYCOM	1	/74	(12)
	PAPER TAPE PUNCH INTERFACE, COUPLES TO FACIT 4070,DATA DYNAMICS,RACAL DIGISTORE	TP 0801	GEC-ELLIOTT	1	/75	(1)
	INTERFACING INPUT UNIT (8BIT DATA/STATUS & CONTR REGS, FOR FACIT SP1 INTERFACE)	SP1/SOURCE	ARSYCOM	1	/74	(12)
	PAPER TAPE READER INTERFACE (COUPLES TO LINWOOD, TREND, & RACAL DIGISTORE)	TR 0801	GEC-ELLIOTT	1	/75	(1)
	MAGNETIC TAPE INTERFACE (TAPE DECKS OR CASSETTES)	CS 0042	NUCL. ENTERPRISES	1	/73	(8)
	UNIVERSAL ASYNCHRONOUS TRANSMITTER/RECEIVER (129 CHAR.BUFFER)	C 317	INFORMATEK	1	/73	
	PERIPHERAL READER(8BIT PARALLEL DATA IN, NEG OR POS TTL,HANDSHAKE CONTROLS)	7064-1	NUCL. ENTERPRISES	1	/71	(1)
	PERIPHERAL DRIVER (8BIT DATA OUT,NEG OR POS TTL,HANDSHAKE CONTROLS)	7065-1	NUCL. ENTERPRISES	1	/71	(1)
.144 DISPLAY MODULES, DISPLAY AND PLOTTER INTERFACING						
N	DISPLAY POINT PLOTTER (1024 X 1024 CAPACITY)	PP012	EG&G/ORTEC	1	/73	
N	DISPLAY DRIVER (INTERFACE FOR TEKTRONIX STORAGE OSCILLOSCOPES).	DD015	EG&G/ORTEC	1	/73	
N	CHARACTER GENERATOR (63 CHARACTERS, 7 X 5 MATRIX, 2 SIZES)	GG018	EG&G/ORTEC	1	/73	
N	DISPLAY VECTOR GENERATOR	VG028	EG&G/ORTEC	1	/73	
	SERIAL HIGHWAY DISPLAY-8BIT,BYTE TO 5 MHZ 16BYTE MEN, 9BYTE DISPLAY DATAWAY READ.	77	JORWAY	2	/76	
N	TOUCH PANEL DISPLAY	209	KINETIC SYSTEMS		/76	
N	LIGHT PEN FOR MODEL 3225	225			/77	
N	TRACKBALL FOR MODEL 3232	240			/76	
N	KEYBOARD FOR MODEL 3235 OR 3420	230			/75	
	DATAWAY DISPLAY (VISUAL.OF ALL LINES)	081	POLON	2	12/76	
	LINEAR DISPLAY DRIVER (DRIVES UP TO 16 BURROUGHS 16 CHAR.OR 32 CHAR.DISPLAYS)	0369	SENSION	1	/76	
	DATA-TV-CONTROLLER	75 5700/A	WEHRMANN	2	/75	
	DISPLAY UNIT (8CMX10CM CRT, INPUTS- X,Y- +1-5V, Z- 5V)	CAM 3.01	METRIMPEX	12	/73	
	DISPLAY DRIVER (FOR CAM 3.01)	CAM 3.02	METRIMPEX	3	/73	
	24 BIT DECIMAL DISPLAY (6 SYMBOLS 0,1,,9,A,B, ...,F)	CAM 3.08	METRIMPEX	1	/74	
	DECIMAL DISPLAY UNIT (ADDRESS AND 5 DATA DECADES + MULTIPLIER DISPLAYED)	9007	NUCL. ENTERPRISES	NA	/71	
	DISPLAY CONTROLLER (FOR 9007,INCLUDES BIN TO DECIMAL CONVERTER)	9006		2	/71	
	COLOUR DISPLAY INTERFACE	9062	NUCL. ENTERPRISES	NA	/75	(12)
	GRAPHIC DISPLAY DRIVER FOR HP1311/TEK604	4301	BI RA SYSTEMS	1	/74	
	GRAPHIC DISPLAY DRIVER FOR STORAGE DISPLAY TEK 602	4301A	BI RA SYSTEMS	2	/74	
	CRT DECIMAL DISPLAY SYSTEM (INCLUDING) DISPLAY DRIVER	72A 72A	JORWAY	NA 5	/71	(2)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	DISPLAY SYSTEM COMPRISING DISPLAY SYNCHRONIZING (COMPATIBLE WITH 60HZ 525 LINE MONITORS)	3200	KINETIC SYSTEMS	1	/71	(4)
	DISPLAY SYNCHRONIZING (COMPATIBLE WITH 50HZ 625 LINE MONITORS)	3200E		1	/74	(12)
	DISPLAY TIMING	3205		1	/71	
	DISPLAY CONTROL	3210		1	/71	
	DISPLAY REFRESH (ALPHANUMERIC + GRAPHS)	3212		1	/71	
	DUAL LIGHT PEN INTERFACE	3225		1	/72	
	PROGRAMMABLE COLOR DISPLAY DRIVER	3232		4	/75	
	COLOR MONITOR - 12", PROF. TRINITRON	5500			/71	
	COLOR MONITOR - 19"	5100			/76	
	STORAGE OSCILLOSCOPE DRIVER	3260		1	/72	
N	ALPHANUMERIC DISPLAY DRIVER	3235		2	/75	
	DISPLAY DRIVER (TWO 10BIT DAC,OUTPUT RANGE +5V TO -5V,TWO OPERATION MODES)	7011-2	NUCL. ENTERPRISES	2	/70	(1)
	STORAGE OSCILLOSCOPE (DRIVER FOR TEKTRONIX 611 OR 601,USED WITH 7011)	9028	NUCL. ENTERPRISES	1	/71	(2)
	SCOPE DISPLAY DRIVER MANUAL CONTROL OF J DD 10	J DD 10 MC 10	SCHLUMBERGER	2 NA	/73	(7)
	SCOPE DISPLAY DRIVER X-Y-Z (SYSTEM)	FDD 2012	SEN	1	/71	(1)
	STORAGE DISPLAY DRIVER FOR TEKTRONIX 611 OR 601	SDD 2015		1	/71	(1)
	CHARACTER GENERATOR	CG 2018		1	/71	(1)
	VECTOR GENERATOR	VG 2028		1	/71	(1)
	LIGHT PEN FOR FDD 2012 OR CG 2018	LP 2035			/71	
N	VIDEO DISPLAY DRIVER (B/W MONITOR DRIVER 24 LINES OF 48/80 CHAR, ASCII SET)	VDD 2081	SEN	2		
	LIGHT PEN (INCLUDES TRIGGER SWITCH) LIGHT PEN PROCESSOR	EC397 EC396	SENSION	1	/75	
	PLOTTER DRIVER (2x10BIT, X,Y OUT +/- 2.5MV)	CAM 3003	METRIMPEX	3	/73	
C	PLOTTER DRIVER (DUAL 10-BIT DAC)	J XY 10	SCHLUMBERGER	1	/73	(8)
	X-Y RECORDER DRIVER	XY 2074	SEN	1		(14)
.145 INSTRUMENTATION INTERFACING MODULES (DVM, SUPPLY CTR, STEPPING MOTOR DRIVERS, PULSE ANALYSER CTR)						
N	DUAL POSITION ENCODER (2 X 20 BIT UP-DOWN COUNTERS)	PE019	EG&G/ORTEC	1	/73	
N	STEPPER MOTOR CONTROLLER	SMC 100	GEC-ELLIOTT	2	/77	
	READ-OUT MODULE FOR WIRE CHAMBERS	JCF 10	SCHLUMBERGER	1	/76	
	DUAL 15 CHANNEL SERIAL OUTPUT MODULE (STEPPER MOTOR CONTROLLER, TTL)	3101	BI RA SYSTEMS	2	/73	
	STEP MOTOR DRIVER (MAX 32768 STEPS,RATE, ROTATION AND START/STOP FULLY COMMANDED)	1161	BORER	1	/72	(3)
	STEPPING MOTOR CONTROLLER & DRIVER (ADJUSTABLE ACCEL/DECEL,TIME & MAX FREQ)	SMC	JOERGER	1	/74	(13)
N	DUAL CHANNEL STEPPING MOTOR CONTROLLER AND DRIVER	SMC-R	JOERGER	1	01/77	
	DUAL PULSE TRAIN GENERATOR	3360	KINETIC SYSTEMS	1	/72	(4)
	STEPPING MOTOR CONTROLLER, ACCELERATING	3361	KINETIC SYSTEMS	1	/73	
	STEPPING MOTOR DRIVER	J CP 20	SCHLUMBERGER	1	/74	(9)
C	POWER SUPPLY FOR STEPPING MOTOR	C APP 10			/74	
	CONTINUOUS STEPPER CONTROL (65536 STEPS, POSITION/DIRECT./SPEED/ACCELER. CONTROL)	C-ST-4	WENZEL ELEKTRONIK	2	/72	
	INCREMENTAL STEPPER CONTROL(65536 STEPS, POSITION/DIRECT./SPEED/ACCELER. CONTROL)	C-ST-4-I	WENZEL ELEKTRONIK	2	/72	
	VARIABLE PULSE DURATION TRIAC OUTPUT MODULE	3701	BI RA SYSTEMS	2	/74	
	TRIAC OUTPUT REGISTER (110V OR 220V AC) (8 BITS, 2 AMPS, ZERO VOLTAGE SWITCHING)	LT	JOERGER	1	/74	
	POWER SUPPLY CONTROLLER 12-BIT D/A CONV.	3158	KINETIC SYSTEMS	1	/73	
	POWER SUPPLY CONTROLLER 12-BITDAC	3160	KINETIC SYSTEMS	1	/75	
	CAMAC-TO-SCIPP PHA INTERFACE	2323	BI RA SYSTEMS	2	/73	
	MULTICHANNEL ANALYZER - CAMAC INTERFACE (FOR PACKARD 9600 AND 900 SERIES MCA)	9701	PACKARD	3		(4)
	SYNCHRO TO DIGITAL CONVERTER (SINGLE AND MULTI-TURN CAPABILITIES)	SDC	JOERGER	2	/73	(13)
	DUAL SYNCHRO-DIGITAL CONVERTER (14BIT)	CS 0047	NUCL. ENTERPRISES	2	/73	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	DUAL INCREMENTAL POSITION ENCODER (2X20 BIT X-Y DIGITIZATION BY UP-DOWN COUNTER)	2IPE 2019	SEN	1	/71	
	INTERFACE FOR MEASURING DEVICES (DUAL INPUT FOR 2 INSTRUMENTS)	DD 200-1412	DORNIER	1	/74	(10)
	PULSE DURATION DEMODULATOR	3720	KINETIC SYSTEMS	1	/73	
	HIGH PERFORMANCE DIGITIZER (150MHZ WAVE)	WP 1051	TEKTRONIX	NA	/75	
	HIGH PERFORMANCE DIGITIZER (1GHZ TRANSI)	WP 2051	TEKTRONIX	NA	/75	
	HIGH PERFORMANCE DIGITIZER (1GHZ TRANSI)	WP 2052	TEKTRONIX	NA	/75	
	ADC/CAMAC INTERFACE (FOR ANY ADC, 2X16BIT O/P BUFFER, STATUS, LAM HANDL, CLOCK TIME)	C-A1-2	WENZEL ELEKTRONIK	1	/73	(10)
	ISOLATED ON-OFF CONTROLLER FOR 16 DEVICES 5 CONTROL-LINES/DEV., 1-SEC-FAILURE-TEST)	C-PC-16	WENZEL ELEKTRONIK	1	/75	(14)
.147 OTHER DIGITAL I/O MODULES (INCL. DATA LINKS)						
	CAMAC DATA LINK MODULE (16 BIT PARALLEL, ASYNCHRONOUS DATA LINK)	6701	BI RA SYSTEMS	2	/73	
	BISON-NET MEMORY MODULE	6720	BI RA SYSTEMS	2	/76	
	BISON-NET TRANSMIT.-RECEIVE MODULE	6721	BI RA SYSTEMS	3	/76	
	BIT-SYNCHRONIZER - HARDWARE PROGRAMABLE TO 10V INPUT, PCM-SIGNAL IN SERIES	DD 200-2251	DORNIER	3	/73	
	FORMAT-SYNCHRONIZER (IDENT & S/P OF DATA WORDS, SOFT- & HARDWARE PROGRAMMABLE)	DD 200-2260	DORNIER	4	/73	
	COMMUNICATION INTERFACE (V24/V23/V21 MODEM INTERFACE WITH AUTO-DIAL OPTION)	DD 200-2911	DORNIER	1	/73	(10)
N	COMMUNICATIONS INTERFACE TO MODEM, TELETYPE, CRT	TCO 100	GEC-ELLIOTT	1	/77	
N	AUTOMATIC CALLING UNIT INTERFACE	3334	KINETIC SYSTEMS	1		
	COMMUNICATION INTERFACE	3340	KINETIC SYSTEMS	1	/75	
	COMMUNICATION INTERFACE W/ BUFFER	3340B	KINETIC SYSTEMS	1	/75	
	MODEM ADAPTER	3934	KINETIC SYSTEMS	1	/75	
	SERIAL DRIVER/RECEIVER (TTY, TTX & MODEM INTERFACE, V24 CCITT STANDARD)	CAM 3,04	METRIMPEX	1	/75	
	SERIAL INTERFACE (V24 SPEC, QUAD VERSION VARIABLE TRANSMISSION RATES)	9045	NUCL. ENTERPRISES	1	/73	(13)
	SERIAL INTERFACE (VARIABLE TRANSMISSION RATE)	9046	NUCL. ENTERPRISES	1	/75	
N	QUAD TELETYPE INTERFACE	9086	NUCL. ENTERPRISES	1	02/77	
N	MANUAL INPUT-OUTPUT DRIVER	9610	NUCL. ENTERPRISES	1	06/77	
	START-STOP UNIT (START, STOP CLOCK AND GATE OUTPUTS)	J AM 10	SCHLUMBERGER	1	/71	
	FOUR FOLD BUSY DONE (START SIGNAL INITIATED BY COMMAND, DEVICE RETURNS LAM)	4BD 2021	SEN	1	/71	
C	DATA TRANSMISSION MODULE (50BD TO 9.6KB SYNC/ASYNC, V24, DUAL CH., USE WITH 0326)	0425	SENSION	1	/75	
	FAST SERIAL DATA LINK (5MHZ FULL DUPLEX)	0376	SENSION	1	/76	
.15 DIGITAL HANDLING AND PROCESSING MODULES -- AND/OR/NOR GATES, FAN-OUTS, DIGITAL LEVEL AND CODE CONVERTERS, BUFFERS, DELAYS, ARITHM. PROCESSORS ETC						
.151 FAN-OUTS, AND/OR/NOT-GATES						
	FAN-OUT UNIT (2 ORED INPUTS PROVIDE 8 TRUE, 2 COMPLEN OUTPUTS, NIM SIGNALS)	FO 0801	GEC-ELLIOTT	1	/71	
	NIM FANOUT (DUAL FOUR FOLD & COMPLEMENT, NIM DRIVER, -14MA INTO 500HMS)	FON	JOERGER	1	/73	
	TTL FANOUT (DUAL FOUR FOLD & COMPLEMENT, TTL DRIVER, 50MA CURRENT SINK)	FOT	JOERGER	1	/73	(14)
	NIM FANOUT (7-ORED INPUTS, 8 O/P+2 COMPL O/P GATED FROM DATAWAY)	216	JORWAY	1	/75	
	FAN OUT MODULE (IL2 I/P, 16 IL2 O/P)	9050	NUCL. ENTERPRISES	1	/73	
	SIX-FOLD CONTROLLED GATE (INDIV GATING, FAN-IN AND FAN-OUT CONTROLLED BY 3 REGS)	6CG 2017	SEN	1	/71	(4)

NG	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	FAST LOGIC UNIT (4X4 NIM INPUTS)	FLU 2062	SEN	1		(12)
	INPUT READER 256 BITS(16X16 FORMAT)	9067	NUCL. ENTERPRISES	2	6/76	
N	8-WORD READER (24BIT)	9606A	NUCL. ENTERPRISES	1	06/77	
N	8-WORD READER (16BIT)	9606B		1	06/77	
N	16-WORD READER (16BIT)	9607		1	06/77	
.152 DIGITAL LEVEL CONVERTERS						
	6 CHANNEL TTL/NIM CONVERTER	5601	BI RA SYSTEMS	1	/73	
	6 CHANNEL NIM/TTL CONVERTER	5602	BI RA SYSTEMS	1	/73	
N	8 CHANNEL DUAL TTL TO NIM OR NIM TO TTL LEVEL CONVERTER LINK SET.	90	HYTEC	1	/76	
	HEX CONVERTER (NIM TO TTL LEVELS PLUS TWO COMPLEMENT OUTPUTS)	CNT	JOERGER	1	/73	(14)
	HEX CONVERTER (TTL TO NIM LEVELS PLUS TWO COMPLEMENT OUTPUTS)	CTN	JOERGER	1	/73	(14)
	HEX IL1 TO IL2 CONVERTER (6 TTL SIGNALS IN, 6 NIM SIGNALS OUT)	7052-1	NUCL. ENTERPRISES	1	/70	
	UNIVERSAL LEVEL CONVERTER	9065	NUCL. ENTERPRISES	1	8/76	
.153 CODE CONVERTERS						
	DECIMAL INPUT 6 NUMBERS 3 DIGITS CODE CONVERTER (SAME BUT 3 NUMBERS)	DO 200-2005	DORNIER	2	/74	
		DO 200-2006		2	/74	
	CAMAC BCD-TO-BINARY CONVERTER	LEM-52/5.7	EISENMANN	1		
	CAMAC BINARY-TO-BCD CONVERTER WITH DECIMAL DISPLAY	LEM-52/5.8	EISENMANN	1		
	GRAY CODE TO BCD CONVERTER (DUAL CHANNEL INPUT WITH MEMORY)	EIR	JOERGER	1	/74	
	BINARY CODE CONVERTER(BIN-BCD OR BCD-BIN CONVERSION, DATA FROM DATAWAY OR FRONT)	9044	NUCL. ENTERPRISES	1		(7)
	BINARI TO DECIMAL CODE CONVERTER (24BIT BINARY TO 8 DECADES)	610A	POLON	1	/74	
	BINARY TO BCD CONVERT. WITH DISPLAY (24BIT TO 8 DECADES)	612	POLON	2	10/76	
	BINARY TO BCD-CONVERTER(24BIT TO 8 DECADE, DISPLAY, CONV 4USEC, TTL LEVEL OUT, 1=H)	C-BBC-24	WENZEL ELEKTRONIK	2	/71	
.154 BUFFER MEMORIES, STORAGE UNITS						
N	CORE STORE FOR MIKEX 16/24 BIT WORDS IN 2,4 OR 8K INCREMENTS	MM SERIES	GEC-ELLIOTT	2	/77	
	PROGRAM STORE/REGISTER (256X24BIT RAM + 64X24BIT ROM, EXT ADDR, USE WITH 7025-2) (SAME BUT WITHOUT EDIT ROM)	110A	HYTEC	1		
	(SAME BUT NO BUFFER AND NO EXT ADDR)	110		1		
		112		1	/73	
	1024 WORD 24 BIT STATIC STORE (NORMAL & BYTE MODES. CLEAR, INCR, DECR, READ, & OVERWRITE ON ADDRESS REG ARE PERFORMED) (SAME WITH MEMORY ACCESS ALSO FROM FRONT PANEL. MASTER/SLAVE OPERATION)	130	HYTEC	1	/75	
		131		2	/75	
	3-DECADE ADC & 16-WAY MUX (PRESET X1-X10 AMPL, 16X24 STORE, 100USEC/CH UPDATE) (SAME AS 500-1 BUT WITH 8-WAY MUX)	500-1	HYTEC	1	/73	
	(SAME BUT BINARY ADC)	502		1	/74	
	(SAME AS 501 BUT WITH 8-WAY MUX)	501		1	/74	
	(SAME, BUT AMPL GAIN CAN BE SET AND STORED INDIVIDUALLY/CHANNEL, BCD/BIN)	503		1	/74	
		510		2	/74	
N	MEMORY EXPANSION FOR 8-BIT BUS	3816	KINETIC SYSTEMS	1	/75	
N	RAM MEMORY (4K,24BIT)	3821		1	/75	
	256 WORD FIFO BUFFER (24 BITS PER WORD)	3841	KINETIC SYSTEMS	1	/75	(13)
	4096 WORD 16 BIT STORE	90618	NUCL. ENTERPRISES	2	/75	
	256 WORDS OF 24 BIT STORE MODULE	CS 0015	NUCL. ENTERPRISES	1	/72	(7)
	PROGRAMMABLE READ ONLY MEMORY (32 WORDS, 18 BITS)	221	POLON	1	/75	
	1K CORE MEMORY (24BIT, 2US CYCLE TIME)	201	POLON	3	6/76	
	4K CORE MEMORY (24BIT, 2US CYCLE TIME)	204	POLON	3	6/76	
	BUFFER MEMORY (256 16BIT WORDS, USE WITH J CAN 21/C/H)	J MT 20	SCHLUMBERGER	1	/72	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	BUFFER MEMORY (256X16BIT WORDS,I/O MODE)	JMT 30	SCHLUMBERGER	1	/76	
	BUFFER MEMORY FOR DATA LOGGER (256 X 16 BIT WORDS)	JTR 10	SCHLUMBERGER	1	/76	
N	BUFFER MEMORY (1K, 24BIT, DMI-MODE, UP TO 16 MEMORIES MAY BE CHAINED)	J MT 40	SCHLUMBERGER	1	/76	
	SPECTRUM MEMORY	F51-4653/CD	WEHRMANN	1	/75	
.155 LOGIC AND ARITHMETIC PROCESSING MODULES						
N	NIM LEVEL, COINCIDENCE REGISTER LATCH 16 I/PS AND COMMON GATE	CR 216/24	GEC-ELLIOTT	0	/77	
N	NIM LEVEL, COINCIDENCE REGISTER (LATCH VERY HIGH SPEED, RESOL. UNDER 2 NS.)	CR 116	GEC-ELLIOTT	1	/77	
N	MICRO COMPUTER AND GRATE CONTROLLER (2USEC ,SET 70 INSTR.,MAX 64K STORE)	MIKEX	GEC-ELLIOTT	3	/77	
N	AS MIKEX WITH DMA	MIKEX/DMA	GEC-ELLIOTT	3	/77	
N	EXTERNAL CONTROL UNIT (19"X3,5") EQUIV. TO PDP11-03 MICROCOMPUTER.	1101	GEC-ELLIOTT	NA	/77	
N	INTERFACE CARD. CONNECT 1101 TO 1100. (SITUATED IN 1101 UNIT)	1102	GEC-ELLIOTT	NA	/77	
	FLOATING POINT ARITHMETIC INTERFACE (FOR USE WITH M 128 HARD. FLOAT. POINT)	C 327	INFORMATEK	1	/73	
C	CAMAC COMPATIBLE MICROCOMPUTER 8080 MICROCOMPUTER, TTY, SERIAL	C 506	RDT	2	9/76	
C	CAMAC & DIGITAL CASSETTE INTERFACED				9/76	
N	CRATE INTERFACE BOARD (FOR TYPE 2C506)	C 507	RDT		09/76	
N	MEMORY UNIT (16K RAM,4K EPROM FOR C506)	C 508		1	11/76	
N	UNIVERSAL PROM PROGRAMMER	C 511		3	11/77	
N	I/O EXTENSION FOR C 506	C 512		1	03/77	
	MICROPROCESSOR MODULE (FOR FAST ASSY. OF SPECIAL INTERFACES ETC. 8080 BASED)	0326	SENSION	1	/75	
	96 CHAN. DRIFT CHAMBER TDC (.25US-1US F.S.,8BIT, 40 DEEP BUFFER, DIFF.I/P)	2770A	LRS-LECROY	2	/75	
	128 CHAN.MWPC ENCODER (RECEIVER, DELAY, LATCH, ENCODER, 80 HIT BUFFER,DIFFI/P)	2720	LRS-LECROY	2	/75	
N	CONTROL MODULE FOR PROGRAMMABLE DELAY UNITS NIM FE 292, 64 DELAYS .5 TO 315NS)	CM 2083	SEN	1		
.16 ANALOGUE MODULES --ADC,DAC,MULTIPLEXERS,AMPLIFIERS,LINEAR GATES,DISCRIMINATORS ETC						
.161 ANALOGUE INPUT MODULES (DC AND PULSE ADC, TDC)						
	32 CHANNEL ANALOG DATA SYSTEM (EXPANDABLE WITH ADDITIONAL MUX MODULES)	5301	BI RA SYSTEMS	2	/74	
N	DUAL DIGITAL VOLTMETER (2X10 BIT, DIFF. INPUT, +100 TO -100 MV)	0V013	EG&G/ORTEC	1	/73	
N	10 MHZ HIGH SPEED DIGITIZER	SA/D01	GEC-ELLIOTT	1	/77	
N	VERY HIGH SPEED DIGITIZER 50MHZ	SA/D650	GEC-ELLIOTT	3	/77	
N	VERY HIGH SPEED DIGITIZER 50MHZ	SA/D801	GEC-ELLIOTT	1	/77	
N	SINGLE ANALOGUE TO DIGITAL CONVERTER, 10, 12, 14 BIT	AD110/12/14	GEC-ELLIOTT	0	/77	
N	DUAL ANALOGUE TO DIGITAL CONVERTER, 10, 12 BIT	AD210/12	GEC-ELLIOTT	0	/77	
N	ANALOGUE TO DIGITAL CONVERTER, 13 BIT, 16 CHANNEL, 100 HZ	ADC500	GEC-ELLIOTT	0	/77	
	16 CHANNEL A/D CONVERTER, DIFF. INPUTS, 30US CONVERSION, 12 BITS PROGRAM. GAIN, INT. MEMORY	AM-F	JOERGER	1	3/76	
N	12 BIT ADC (ISOLATED I/P,PROGR. GAIN)	3552-1	KINETIC SYSTEMS	2	/76	
N	12 BIT ADC (DIFF. I/P,PROGRAMMABLE GAIN)	3552-2		1	/77	
N	12 BIT ADC (DIFF. I/P, FIXED GAIN)	3552-3		1	/77	
	A/F CONVERTER	CAM 4.13	METRIMPEX	1	/73	
	512 CHANNEL ADC (PULSE,+5V OR +10V, RANGE, 50 MHZ CLOCK)	711	POLON	2	5/76	
	FAST 12BIT A/D CONVERTER	JCANR 10	SCHLUMBERGER	2	/76	

NG	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	ANALOG OUTPUT (DAC, ±1-10V O/P RANGE, 5MA, 8BIT RESOLUTION, SINGLE O/P)	DO 200-1513	DORNIER	1	/73	
	(SAME WITH 12BIT RESOLUTION, SINGLE O/P)	DO 200-1523		1	/73	
	(SAME WITH 8BIT RESOLUTION, DUAL O/P)	DO 200-1514		1	/73	
	(SAME WITH 12BIT RESOLUTION, DUAL O/P)	DO 200-1524		1	/73	
	(SAME WITH 8BIT RESOLUTION, QUAD O/P)	DO 200-1518		1	/73	
	(SAME WITH 12BIT RESOLUTION, QUAD O/P)	DO 200-1528		1	/73	
	ANALOG OUTPUT (DAC, ±1-5V O/P RANGE, 5MA, 8BIT RESOLUTION, SINGLE O/P)	DO 200-1515	DORNIER	1	/73	
	(SAME WITH 12BIT RESOLUTION, SINGLE O/P)	DO 200-1525		1	/73	
	(SAME WITH 8BIT RESOLUTION, DUAL O/P)	DO 200-1516		1	/73	
	(SAME WITH 12BIT RESOLUTION, DUAL O/P)	DO 200-1526		1	/73	
	(SAME WITH 8BIT RESOLUTION, QUAD O/P)	DO 200-1519		1	/73	
	(SAME WITH 12BIT RESOLUTION, QUAD O/P)	DO 200-1529		1	/73	
	DORNIER MODULES ALSO MARKETED BY SIEMENS		SIEMENS			
	OCTAL DAC (10BIT, 0-5V, 500HMS, 10USECS)	DAC 1082	GEC-ELLIOTT	1	/73	
	(SAME BUT WITH 2'S COMPLEMENT 9BIT+SIGN, +AND- 5V, 500HMS)	DAC 1082(B)		1	/73	
	QUAD DAC (4 CHANNEL VERSION OF DAC 1082)	DAC 1042	GEC-ELLIOTT	1	/74	
	(SAME, 4 CHANNEL VERSION OF DAC 1082(B))	DAC 1042(B)		1	/74	
N	FAST DIGITAL TO ANALOGUE CONVERTER 13, 12 BIT, 2 CHANNEL	DAC600/20	GEC-ELLIOTT	0	/77	
	DUAL 12 BIT DAC (+/- 10V OR +/- 5V O/P, FOR X-Y DISPLAY DRIVE)	550	HYTEC	1	/75	
N	DUAL 12BIT BINARY DAC SWITCHED +/- 10V, 5V OR 2.5V OUTPUT	600	HYTEC	1	/76	
N	AS 600 BUT BCD	601		1	/76	
N	DUAL 12BIT DAC (UNI-POLAR OR BI-POLAR) OUTPUTS AS 600. LOW COST VERSION OF 600	620	HYTEC	1	/76	
N	DUAL 16BIT BIN. DAC (14BIT ABSOLUTE ACCURACY, SETTLING TIME 300USEC TO 0.01s	650	HYTEC	1	/77	
N	AS 650 BUT BCD	651		1	/76	
C	DUAL D/A CONVERTER (12 BIT, 5USEC CONV. TIME, +10V, ±1-10V, ±1-5V RANGES)	D/A-12	JOERGER	1	/73	
	OCTAL D/A CONVERTER (8BIT RESOLUTION, ↓ TO 2MA OR ↓ TO +10V OUT)	8 D/A	JOERGER	1	/73	(13)
	D/A CONVERTER, 16 BITS, DUAL OR SINGLE CHANNEL, ±1-10V OR +10V OUTPUTS.	D/A-16	JOERGER	1	5/76	
	DIGITAL TO SYNCHRO CONVERTER, 14 BIT RESOLUTION, 60 HZ OR 400 HZ.	JSC	JOERGER	2	5/76	
	D/A CONVERTER (12BIT, 5 USEC CONVERSION, O/P RANGES +AND-2.5V/5V/10V AND +5V/10V)	31	JORWAY	1	/71	(2)
	8 CHANNEL 10 BIT D-A CONVERTER	3110	KINETIC SYSTEMS	1	/72	
	8 CHANNEL 12 BIT D/A CONVERTER	3112	KINETIC SYSTEMS	1	/76	
	DIGITAL TO ANALOG CONVERTER (12BIT, CONV TIME 10USEC, O/P RANGE 0 TO 5V, MAX 5MA)	CAM 4.10	METRIMPEX	1	/72	
	DIGITAL TO ANALOG CONVERTER (4X10BIT, TIME 10USEC, O/P RANGE ±1-5V, MAX 5MA)	CAM 4.11	METRIMPEX	2	/74	
	MULTI-DAC 12 CHANNEL 12 BIT	9085	NUCL. ENTERPRISES	1	10/76	
	DUAL DIGITAL-TO-ANALOG CONVERTER (10BIT, OUTPUT 0 TO +10V OR -5 TO +5V)	2DAC 2011	SEN	1	/71	
C	QUAD DAC (12BIT, -10V TO +10V, OR -20MA TO +20MA)	C 76451-A15-A6	SIEMENS	1	/73	
	DIGITAL ANALOG CONVERTER (12BIT, 3 POT)	DAC	WEHRMANN	2	/75	
	ISOLATED DUAL DAC (10BIT, 30USEC, 10V/5MA, OPTOCOUPLER, 4 TIMING MODES, RANGE-MODIF)	C-DA-210	WENZEL ELEKTRONIK	1	/74	
	QUAD DAC (8BIT, 10USEC, 5V/50MA, 4TIMING-M, +,- RANGE MODIF, OPT.GROUND-REJ 1.5USEC)	C-DA-408	WENZEL ELEKTRONIK	1	/74	(11)
	QUAD DAC (10BIT, 10USEC, 5V/50MA, 4TIMING-M, +,- RANGE MODIF, OPT.GROUND-REJ 1.5USEC)	C-DA-410	WENZEL ELEKTRONIK	1	/74	(11)
	.164 ANALOGUE HANDLING AND PROCESSING MODULES I (MX)					
	SEE ALSO DORNIER ADC TYPES		DORNIER			
N	SOLID STATE MULTIPLEXER 16 CHANNEL, HIGH SPEED	MX-016	GEC-ELLIOTT	1	/77	
	SOLID STATE ANALOG MULTIPLEXER, 32 SINGLE ENDED INPUTS OR 16 DIFFER., EXPANDABLE	AMS	JOERGER	1	6/76	
	16 CHANNEL FET MULTIPLEXER	JHR 10	SCHLUMBERGER	1	/76	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	MANUAL CONTROL	JAR 10	SCHLUMBERGER	1	/76	
N	MULTIPLEXER (32 CH. 2 RELAY CONTACTS)	C72451-A1673-A1	SIEMENS	1	/76	
N	MULTIPLEXER (16 CH. 4 RELAY CONTACTS)	C72451-A1673-A2		1	/76	
	MULTIPLEXER CONTROL UNIT (UP TO 7 CAM 4.08-21 /R CAM 4.08-22)	CAM 4.08-1	METRIMPEX	1	/74	
	12 INPUT ANALOGUE MULTIPLEXER (RANDOM OR SCAN ACCESS CONTROLLED BY SKIP REGISTER)	MX 2025	SEN	1	/72	(6)
	12-CHANNEL ANALOGUE MULTIPLEXER (FET, 5 USEC SWITCHING TIME, +/-10V)	MX 2070	SEN	1		(13)
	WIDE-BAND ROUTER (12-CHANNEL 50 OHMS ANALOGUE MULTIPLEXER)	WBR 2073	SEN	1		(13)
	15 CHANNEL MULTIPLEXER (ANALOGUE SIGNALS ROUTED TO ADC/DVM, DIRECT + SCAN MODES)	1701	BORER	1	/72	(3)
	RELAY MULTIPLEXER(16 CHANNELS,MAX 200V/ 500MA OR 10VA, DATAWAY SET+INCR.ADDRESS WITH FRONT PANEL CONNECTOR (SAME WITH LOW THERMO VOLTAGE CONTACTS)	DO 200-1236 DO 200-1236 DO 200-1235	DORNIER	1 1 2	/72 /72 /71	
	ANALOG MULTIPLEXER (15 CHANNELS, REED RELAYS, MAN AND DATAWAY SEL, EXPANDABLE)	AM	JOERGER	2	/72	(6)
	16-CHANNEL A/D CONVERTER (DIFFERENTIAL INPUTS, 11 BITS + SIGN)	AM-1	JOERGER	2	/74	(11)
	16-CHANNEL A/D CONVERTER (ACCEPTS 4-20MA CURRENT INPUTS, 11 BITS)	AM/I	JOERGER	2	/75	
	15 CHANNEL RELAY MULTIPLEXER	3530P	KINETIC SYSTEMS	1	/73	
	15 CHANNEL RELAY MULTIPLEXER (LEMO CONN)	3530L	KINETIC SYSTEMS	2	/75	
	MASTER MULTIPLEXER (16 CH, 4 POLE REED) SLAVE MULTIPLEXER (16 CH, 4 POLE REED)	601 600	NUCL. ENTERPRISES		/70 /70	
	RELAY MULTIPLEXER 64 WAY	9024	NUCL. ENTERPRISES	NA	10/76	
	16 CHANNEL RELAY MULTIPLEXER STANDARD LEVEL) (SAME FOR LOW LEVEL)	J MX 10	SCHLUMBERGER	1	/73	
	16-CHANNEL FAST MULTIPLEXER (FET SWITCHES FOR ADC 1243 AND 1244)	J MX 20 1704	BORER	1 1	/73 /72	(4)
	FET MULTIPLEXER (16 CHANNELS, MAX +OR-10V, DATAWAY SET+INCR.ADDRESS) WITH FRONT PANEL CONNECTOR	DO 200-1231 DO 200-1231	DORNIER	1 1	/72 /72	
	FET MULTIPLEXER (16 DIFF I/P, MAX +OR-10V, DATAWAY SET+INCR.ADDRESS) WITH FRONT PANEL CONNECTOR	DO 200-1234 DO 200-1234	DORNIER	1 1	/72 /72	
	16 CHANNEL A/D CONVERTER (FET MUX DIFF INPUTS, 12BIT AUTO CYCLING, DUAL SLOPE)	34	JORWAY	2	/74	
	16 CHANNEL FAST DIGITAL MULTIPLEXER (PULSE WIDTH MIN 7 NSEC)	CAM 6.03	METRIMPEX	2	/74	
	16 CHANNEL MULTIPLEXER (SWITCHING OF 3 WIRES, MAX 500HZ, MAX 100V)	CAM 4.08-21	METRIMPEX	2	/74	
	16 CHANNEL MULTIPLEXER (SWITCHING OF 4 WIRES, MAX 500HZ, MAX 100V)	CAM 4.08-22	METRIMPEX	2	/74	
	MULTIPLEXER-SOLID STATE (16 SINGLE-ENDED OR 8 DIFF CHAN, RANDOM OR SEQUENT ACCESS)	9026	NUCL. ENTERPRISES	1	/71	
	32 CHANNEL ANALOG MULTIPLEXER (SERVE AS CHANNEL EXPANDER FOR 5301 DATA SYSTEM)	5101	BI RA SYSTEMS	1	/74	
	32 CHANNEL ANALOG MULTIPLEXER (MAX 100KHZ, MAX +/-5V IN)	CAM 4.07	METRIMPEX	1	/73	
	RELAY MULTIPLEXER (32-2 WIRE OR 10-3 WIRE CHANNELS)	750	POLON	2	/75	
	FET MULTIPLEXER (32 CHANNELS, MAX +OR-10V, DATAWAY SET+INCR.ADDRESS) WITH FRONT PANEL CONNECTOR	DO 200-1232 DO 200-1232	DORNIER	1 1	/72 /72	
	FET MULTIPLEXER (32 DIFF IOP, MAX +OR-10V, DATAWAY SET+INCR.ADDRESS) WITH FRONT PANEL CONNECTOR	DO 200-1237 DO 200-1237	DORNIER	2 2	/72 /72	
	FET MULTIPLEXER (64 CHANNELS, MAX +OR-10V, DATAWAY SET+INCR.ADDRESS) WITH FRONT PANEL CONNECTOR	DO 200-1261 DO 200-1261	DORNIER	2 2	/73 /73	
.165 ANALOGUE HANDLING AND PROCESSING MODULES II (LIN. GATES, AMPL., DISCRIMINATORS ETC)						
	PREAMPLIFIER (GAIN RANGES-- X10, X30, X100, X300)	CAM 4.15	METRIMPEX	3	/72	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	FILTER AMPLIFIER (GAIN RANGE-- OFF, X1, X10)	CAM 4.16	METRIMPEX	3	/72	
	ACTIVE FILTER AMPLIFIER(10-1900V/V GAIN, .25-1USEC GAUSS.PULSE SHAPING,0-10V OUT)	1101	POLON	3	/74	
	BASELINE RESTORER(.1: COUNT RATE STABIL UP TO 50KHZ,0-10 I/O SIGNALS,1V/V GAIN)	1102	POLON	2	/74	
	DELAY AMPLIFIER(.25 - 4.75USEC DELAY, 0 TO 10V IN/OUT SIGNALS, 1V/V GAIN)	1103	POLON	2	/75	
	SUM-INVERT AMPLIFIER(.2: NON-LINEARITY, 1V/V GAIN, 0 TO 10V IN/OUT SIGNALS)	1104	POLON	1	/74	
	LINEAR GATE (.2: NON-LINEARITY, +/- 1V/V GAIN, 0 TO 10V IN/OUT SIGNALS)	1105	POLON	1	/73	
	PULSE STRETCHER(.05-.9USEC I/P WIDTH, 1USEC O/P WIDTH OF PULSES, .9 V/V GAIN)	1106	POLON	1	/74	
	SINGLE CHANNEL ANALYSER (.2-10V LO/HI LEVEL, .2-2V WINDOW, .5-2.5USEC DELAY)	1201	POLON	3	/74	
	LINEAR RATEMETER (10 TO 100KCPS RANGE, 1SEC TO 30SEC TIME CONSTANTS)	1301A	POLON	3	/74	
	LOGIC SHAPER AND DELAY (.2 TO 110USEC DELAY, .2 TO 11USEC O/P PULSE WIDTH)	1401	POLON	2	/74	
	UNIVERSAL COINCIDENCE (.1 TO 2USEC RESOLVING TIME)	1402	POLON	2	/74	
	FAST AMPLIFIER (200V/V GAIN, 10NS RISE TIME, 200NS TC DIFF, 200NS TC INTEGR)	1501	POLON	3	/75	
	FAN OUT (1 NIM IN, 2 NIM & 1 COMPL TTL OUT)	1504	POLON	1	/73	
	DETECTOR BIAS SUPPLY (TO +/-2000V, 1MOHM AND 10MOHM OUTPUT RESISTANCE)	1901	POLON	4	/74	
	CHARGE PREAMPLIFIER (2.8 KEV, 0.03KEV/PF NOISE FOR GE)	1001	POLON		/76	
	CHARGE PREAMPLIFIER (1.3 KEV, 0.03KEV/PF NOISE FOR GE)	1002	POLON		/76	
	SCINTILLATION PREAMPLIFIER (6.10E8C GAIN 0.1: NONLINEARITY,50USEC DECAY TIME)	1003	POLON	1	6/76	
	FAST DISCRIMINATOR (-0.15V TO -1V DISC. LEVEL, 0.8: NONLINEARITY)	1502	POLON	1	/75	
	CONSTANT REACTION DISCRIMINATOR (0.05 TO 0.3 FRACTION, 50MV IN. SENSITIVITY)	1503	POLON	2	7/76	
	MANOSECOND DELAY (2.5NS TO 66NS DELAY)	1506	POLON	2	/75	
	ANTI-COINCIDENCE /DISCRIMINATOR	JDC 10	SCHLUMBERGER	1	/76	
	1 X 16 CHANNEL FAN OUT	JFO 10	SCHLUMBERGER	1	/76	
	2 X 5 CHANNEL FAN OUT	JFO 20	SCHLUMBERGER	1	/76	
	MANUAL DELAY	JMD 10	SCHLUMBERGER	1	/76	
N	QUAD DISCRIMINATOR (100MHZ)	J DR 10	SCHLUMBERGER	1	/76	
	CAMAC CONTROLLED PULSE SHAPER (4 PH I/P, 4 NIM I/P & 6 NIM O/P)	CPS 2065	SEN	1		(12)
N	FUNCTION GENERATOR (10MHZ,+/-10V,100MA, PROGRAMMABLE CURVE SHAPE, AM & FM)	C72451-A1627-A1	SIEMENS	3	/76	
N	DIGITAL-TO-SYNCHRO CONVERTER (RCF=26V, SYNC= 11.8V,FREQ=400HZ, RESOL=.022 DEGR)	C72451-A1602-A109	SIEMENS	2	/76	
N	DIGITAL-TO-RESOLVER CONVERTER(SAME DATA)	C72451-A1602-A110		2	/76	
N	SYNCHRO-TO-DIGITAL CONVERTER (SAME DATA)	C72451-A1602-A111		2	/76	
	SAMPLE-AND-HOLD AMPLIFIER (DUAL DIFF AMPL,+/-10V RANGE,20MA OUT,5USEC SETTLE) (SINGLE AMPL VERSION, BOTH TYPES HAVE HOLD AND TRACK MODES)	DO 200-1040	DORNIER	2	/72	
		DO 200-1041		2	/72	
	PROGRAMMABLE AMPLIFIER/ATTENUATOR (GAIN 0DB TO 60DB IN 10 STEPS, ATTENUATION .5) (SAME BUT DUAL CHANNEL VERSION)	DO 200-1052	DORNIER	2	/73	
		DO 200-1053		1	/73	
	PROGRAMMABLE AMPLIFIER (GAIN 1, 10, 100, 1000) (SAME BUT DUAL CHANNEL VERSION)	DO 200-1054	DORNIER	1	/75	
		DO 200-1055		1	/75	
	PROGRAMMABLE PRECISION ATTENUATOR (1/1 TO 1/2048, 20V MAX I/P RANGE)	PPA 2071	SEN	1		(13)
	DIGITAL WINDOW DISCRIMINATOR (WITH 128X16BIT BUFFER, PARALLEL + SERIAL I/P)	DWD 2046	SEN	1	/72	(8)
	TIME TO PULSE HEIGHT CONVERTER (START- STOP I/P, MAX 256NSEC, RESOL 1[CPSEC)	CAM 4.17	METRIMPEX	2	/74	

NG	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	.17 OTHER DIGITAL AND/OR ANALOGUE MODULES --MIXED ANALOGUE AND DIGITAL, NOT DATAWAY CONNECTED ETC					
	PROM PROGRAMMER	30 90	KINETIC SYSTEMS	2	/75	
	DUAL BRIDGE POWER SUPPLY (FLOATING OUTPUTS EACH MAX 24V/200MA)	CAM 4.08-3	METRIMPEX	2	/74	
	OCTAL FLOATING POWERED BRIDGE (PT-THERMO-R APPL, USE WITH CAM 4.08-21)	CAM 4.08-41	METRIMPEX	2	/74	
	OCTAL FLOATING POWERED BRIDGE (PT-THERMO-R APPL, USE WITH CAM 4.08-22)	CAM 4.08-42	METRIMPEX	2	/74	
	COLD POINT POWER SUPPLY (FOR COLD POINT REFERENCE BRIDGES)	CAM 4.08-5	METRIMPEX	2	/74	
	OPTOCOUPLER (24 INDEPENDENT CHANNELS)	632SA	POLON	1	8/76	
	OPTOCOUPLER (24 INDEPENDENT CHANNELS)	632AA	POLON	1	8/76	
	OPTOCOUPLER (24 INDEPENDENT CHANNELS)	633AA	POLON	1	8/76	
	OPTOCOUPLER (24 INDEPENDENT CHANNELS)	634AA	POLON	1	8/76	
	RELAY COUPLER (24 INDEPENDENT CHANNELS)	635SA	POLON	1	8/76	
	RELAY COUPLER (24 INDEPENDENT CHANNELS)	635AS	POLON	1	8/76	
	RELAY COUPLER (24 INDEPENDENT CHANNELS)	635AA	POLON	1	8/76	
	DATA RECEIVER FOR MECHANICAL OPERATIONS (5 DECADE DATA, 3 DECADE INSTRUCTION REG)	C 501	RDT	0		(7)
	REPROM MEMORY PROGRAMMING MODULE	JPROM 10	SCHLUMBERGER	2	/76	
	CAMAC PROM PROGRAMMER		SENSION	2		(13)
N	PROTOTYPING MODULE (FOR WIRE-WRAP, 53 POSITIONS, INCL 24 PIN AND 40 PIN)	CG/470	SENSION	1	/76	
C	CURRENT SOURCE (1UA TO 10MA AND FOR PT 100 ADAPTOR)	C 76451-A5-A1	SIEMENS	2	/73	
	CONTROLLER FOR NI-WIRE-READOUT	27 34 655/A	WEHRMANN	1	/75	
	DIGITIZER FOR NI-WIRE-READOUT	27 34 655/B	WEHRMANN	1	/75	
	.2 SYSTEM CONTROL EQUIPMENT- COMPUTER COUPLERS, CONTROLLERS AND RELATED EQUIPMENT *****					
	.21 INTERFACES/DRIVERS AND CONTROLLERS --PARALLEL MODE FOR 4600 BRANCH AND OTHER MULTI-CRATE BUS, SINGLE-CRATE SYSTEMS, AUTONOMOUS SYSTEMS					
	.211 INTERFACES/DRIVERS FOR MULTICRATE SYSTEMS I (4600 BRANCH COMPATIBLE)					
	EXECUTIVE SUITE		GEC-ELLIOTT			
	ASSEMBLY OF MODULAR CONTROLLERS IN CAMAC CRATE, COVERS SYSTEM COMPLEXITY FROM SINGLE SOURCE-SINGLE CRATE TO MULTI SOURCE-MULTI CRATE SYSTEMS, COMPRISING EXECUTIVE CONTROLLER (TRANSFORMS STANDARD CRATE INTO SYSTEM CRATE)	MX-CTR-3		2	/72	
	BRANCH COUPLER (ONE PER BRANCH, MAX 7)	BR-CPR-3		2	/72	
	AND SYSTEM INTERFACE SOURCE UNITS, ALSO OPTIONALLY AUTONOMOUS CONTROLLER SOURCE UNITS (ALL INSERTED INTO SYSTEM CRATE)		GEC-ELLIOTT			
	PDP-11 SYSTEM INTERFACE, COMPRISING PROGRAM TRANSFER INTERFACE	PTI-11 C/D	GEC-ELLIOTT	3	/72	
	UNIBUS TERMINATION UNIT	TRM-11-1		1	/74	
	INTER UNIT BUS (LINKS UNIBUS TO ALL SI SOURCE UNITS FORMING INTERFACE)	IUB-X			/74	
	INTERRUPT VECTOR GENERATOR (ADDS AUTONOMOUS ENTRY OF GL-DERIVED INTERRUPTS)	IVG-11-1		1	/72	
	AUTONOMOUS MEMORY ACCESS CONTROLLER (2 USEC/WORD TRANSFER TO PDP-11 STORE)	AHC-11		2	/75	
N	VERY FAST AUTONOMOUS MEMORY CHANNEL (1.7MI CROSEC/24-BIT WORD TRANSFER)	AHC 11-1	GEC-ELLIOTT	2	/77	
N	DEDICATED LSI-11 EXECUTIVE. GEC 4080 COMPUTER INTERFACE.	EXEC 11	GEC-ELLIOTT	2	/77	
	NOVA/SUPERNOVA SYSTEM INTERFACE, COMPR PROGRAM TRANSFER INTERFACE	PTI-N C/D	GEC-ELLIOTT	3	/72	
	I/O BUS TERMINATION UNIT	TRM-N		1	/72	
	INTER UNIT BUS	IUB-X			/74	
	INTERRUPT VECTOR GENERATOR (256 BIT TRAP STORE, BRANCH OR GL PRIORITY MODES)	IVG-2404		1	/74	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	INTERDATA 70-SERIES SYSTEM INTERFACE COMPRISING PROGRAM TRANSFER INTERFACE I/O BUS TERMINATION UNIT INTER UNIT BUS INTERRUPT VECTOR GENERATOR (256 BIT TRAP STORE, BRANCH OR GL PRIORITY MODES)	PTI-70 C/D TRM-70 IUB-X IVG-2404	GEC-ELLIOTT	3 1 1 1	/73 /74 /74	
	HONEYWELL 316/516 SYSTEM INTERFACE, COMPR PROGRAM TRANSFER INTERFACE I/O BUS TERMINATION UNIT SYSTEM INTERFACE BUS	PTI-H16 C/D TRM-H16 SI-BUS-XH16	GEC-ELLIOTT	3 1	/73 /73	
	GEC 4080 SYSTEM INTERFACE, COMPRISING DIRECT TRANSFERS INTERFACE INTERRUPT VECTOR GENERATOR BLOCK TRANSFER CHANNEL CONTROLLER INTER UNIT BUS AUTONOMOUS MEMORY ACCESS CONTROLLER (2.5 US/WORD TRANSFER TO GEC-4080 STORE)	PTI-2050 C/D IVG-2404 PTI-2050 D IUB-X AMC-4080	GEC-ELLIOTT	3 1 3 1 2	/73 /74 /73 /74 /75	
N	DIRECT STORE ACCESS CONTROLLER FOR GEC 4080 COMPUTER INTERFACE.	DMA 4000	GEC-ELLIOTT	1	/77	
	GEC 2050 SYSTEM INTERFACE (SAME ITEMS AS FOR GEC 4080 INTERFACE)		GEC-ELLIOTT		/74	
N	INTERRUPT VECTOR GENERATOR ALTERNATIVE TO ALL OTHER IVG'S	IVG 2404	GEC-ELLIOTT	1	/77	
N	NORD 10 SYSTEM INTERFACE COMPRISING PROGRAMM TRANSFER	PTO-N10C/D	GEC-ELLIOTT	3	/77	
N	INTERFACE DMA MODULE A/B/C BUS	DMA-N10A/B/C		1	/77	
N	TRANSFER BOX (19" BIN)	RTX-N10		NA	/77	
N	I/O TERMINATOR	TRM-N10		NA	/77	
N	HEWLETT PACKARD 2100 PROGRAM TRANSFER INTERFACE	PTI-21W	GEC-ELLIOTT	2	/77	
N	HEWLETT PACKARD 2100 EXECUTIVE CONTROL- LER AUTONOMOUS MEMORY	AMC-21	GEC-ELLIOTT	2	/77	
N	INTERFACE TO 1101/PDP 11-03 MICROCOMP. (PERFORMS FUNCTION OF EXEC. CONTROLLER)	1100	GEC-ELLIOTT	2	/77	
	SYSTEM CRATE TEST UNIT (TWO-COMMAND TEST UNIT FOR CHECKING SYSTEM CRATE SYSTEMS)	SC-TST-1	GEC-ELLIOTT	3	/72	
	BRANCH HIGHWAY DRIVER	3991	KINETIC SYSTEMS	2	/75	
N	BLOCK TRANSFER MODULE FOR SYSTEM CONTR.	C72451-A1602-01	SIEMENS	0	/75	
	MICROPROGRAMMED BRANCH DRIVER FOR PDP-11 (FORM 1K UP TO 4K WORDS MEMORY)	12C1	BI RA SYSTEMS	NA	/72	
	UNIBUS CABLE ASSEMBLY	81C1			/72	
	UNIBUS TERMINATOR MODULE	8400	BI RA SYSTEMS		/75	
	PDP-11 CAMAC CONTROLLER (SEQUENTIAL READ/ WRITE, 24 GRADED-L INTERRUPT DIRECTLY)	CA 11-A	D E C	NA	/71	(2)
	PDP-15 CAMAC INTERFACE (18/24BIT, PROGR, SEQUENT ADDR AND BLOCK TRANSFER MODES)	CA 15 A	D E C	NA	/71	(1)
	PDP-11 INTERFACE/BRANCH DRIVER (24 VECTOR ADDRESSES, PROGRAMMED AND MULTIPLE DMA-TRANSFER, ADDRESS SCAN AND -LIST MODE, REPEAT-, LAM- AND STOP MODE)	CA 11-C	D E C	NA	/72	(4)
	PDP-11 BRANCH DRIVER (EUR 4600 COMPATI- BLE, PROGRAMMED AND SEQUENT ADDR MODES)	BD-011	EG&G/ORTEC	NA	/71	
	PDP-11 INTERFACE (BRANCH AND/OR SERIAL HIGHWAY, DMA, BDD11 REG. ASSIGNMENTS)	411	JORWAY	NA	/75	
	PDP-11 BRANCH DRIVER	KS 0011	KINETIC SYSTEMS	NA	/71	(4)
	INTERFACE AND DRIVER FOR PDP 11 OR PDP 8 MULTI-CRATE SYSTEM, COMPRISING BRANCH INTERFACE 24-BIT CONTROLLER (WITH EITHER OF THE FOLLOWING INTERFACE CARDS) PDP 11 INTERFACE CARD INTERFACE CARD FOR DEC PDP 8 SERIES	9031 9030 9032 9034	NUCL. ENTERPRISES	2 3	/72 /72 /72 /73	(7) (7) (7) (7)
C	INTERFACE CAMAC-PDP 11 (PROGRAMMED, BLOCK TRANSFER AND SEQUENTIAL ADDR MODES)	ICP 11B/ICP 11BA	SCHLUMBERGER	NA	/76	(4)
	NOVA BRANCH DRIVER WITH DATA CHANNEL	1251-2	BI RA SYSTEMS	NA	/74	(5)
	PRIME COMPUTER BRANCH DRIVER (WITH DTM. PRIME COMPUTER BRANCH CABLE TYPE 8103)	1260	BI RA SYSTEMS	NA	/74	
	CTL MODULAR ONE AUTONOMOUS BRANCH HIGHWAY CONTROLLER	20368	C T L	NA	/75	(14)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	SYSTEM CONTROLLER FOR SIEMENS 404/3 (TRANSFER OF 16 OR 24 BIT DATAWORDS PARALLEL BRANCH COMMAND CHAINING)	DO 200-2921	DORNIER	6	/73	
	(SAME BUT WITHOUT COMMAND CHAINING)	DO 200-2922		6	/73	
	SYSTEM CONTROLLER FOR SIEMENS 404/3 (TRANSFER OF 16 OR 24 BIT DATAWORDS PARALLEL BRANCH BUT NO COMMAND CHAINING)	DO 200-2923	DORNIER	6	/73	
	MICRODATA 800/CIP 2000 BRANCH DRIVER	91	JORWAY	NA	/73	(8)
	BRANCH DRIVER - INTERFACE FOR 1001 TPA-1 AUTONOM ADAPTER (INTERFACES CAMAC TO AUTONOMOUS CHANNEL)	CAM 1.04 CAM 1.18	METRIMPEX	NA 1	/73 /74	
	INTERFACE-DRIVER FOR VARIAN 73/620I/620L MULTI-CRATE SYSTEM, COMPRISING BRANCH INTERFACE	9031 903C	NUCL. ENTERPRISES	2 3	/72 /72	(8) (7) (7)
	24-BIT CONTROLLER AND INTERFACE CARD FOR VARIAN 73/620I/620L SERIES COMPUTERS	CS 0044				(8)
C	SYSTEM CONTROLLER FOR SIEMENS PR300-16B, (AUTO-GL, 24 VECTOR ADDR, PROGRAMMED & DMA TRANSFERS)	51-A1602-A1	SIEMENS	8	/74	

.212 INTERFACES/DRIVERS FOR MULTICRATE SYSTEMS II
(FOR OTHER PARALLEL MODE CONTROL/DATA HIGHWAY)

N	DEDICATED CRATE CONTROLLER FOR NOVA COMPUTERS (INCL. NOVA III & ECLIPSE)	NC023D	EG&G/ORTEC	2	3/76	
	BIDIRECTIONAL DATA BREAK MODULE FOR PDP8 COMPUTERS (FOR USE WITH 7048-2)	1000	HYTEC	2	/74	
	PROGRAMMED DATAWAY CONTROLLER (PART OF 7000-SER SYSTEM WITH EXT CONTR HIGHWAY) PROGRAM CONTROL UNIT WIRED STORE	7025-2 0362-2 7044-1	NUCL. ENTERPRISES	2 NA 1	/70 /70 /70	
	LSI-CAMAC INTERFACE MODULE	JLSI 10	SCHLUMBERGER	2	/76	
	CRATE CONTROLLER FOR NOVA COMPUTER CRATE CONTROLLER BUS TERMINATOR FOR CC 2023A/B (ONE PER SYSTEM)	CC 2023A/B BT 2022	SEN	2 1	/70 /71	
	CRATE CONTROLLER FOR PDP11 (MULTICRATE CONTROLLER)	EC 372	SENSION	2	/76	
	INPUT REGISTER DUAL 16 BIT	9069 (A)	NUCL. ENTERPRISES	1	8/76	

.213 INTERFACES/DRIVERS FOR SINGLE-CRATE SYSTEMS
(4100 DATAWAY COMPATIBLE)

	SINGLE CRATE SYSTEM CONTROLLERS(SEE EXECUTIVE SUITE, CLASS .211)		GEC-ELLIOTT			
N	LSI-11/PDP-11-03 CAMAC CONTROLLER 24-BIT (INCLUDES GEC SYSTEM CRATE EXEC. UNIT	1100	HYTEC	2	/76	
N	EXT. CONTROL UNIT (SPECIAL VERSION OF LSI-11 FOR 1100 COMPLETE WITH POWER)	1101	HYTEC	2	/76	
N	INTERFACE AS 1100 BUT DOES NOT CONTAIN EXEC. CONTROLLER. REQUIRES GEC EXEC. CONTROLLER TO WORK.	1110 1110	HYTEC	2 2	/77 /77	
	CAMAC-MERA INTERFACE (FOR MERA 300 FAM. MICROCOMPUTERS)	102	POLON	3	12/76	
N	CRATE CONTROLLER FOR SIEMENS PR 30J/16	C72451-A1671-A1	SIEMENS	2	/76	
	PDP-11-SERIES CRATE CONTROLLER	1304	BI RA SYSTEMS	2	/73	
	CRATE CONTROLLER/PDP11 UNIBUS INTERFACE	1533A	BORER	2	/72	(4)
	NPR CONTROLLER FOR DMA TO PDP11 E.G. VIA 1533A CRATE CONTROLLER/INTERFACE	1542	BORER	NA	/73	(8)
	SINGLE CRATE CONTROLLER/PDP-11 INTERFACE (MULTIPLE BUS ADDRESS VERSION)	CA-11-E	D E C	2	/74	(9)
	SINGLE CRATE CONTROLLER/PDP-11 INTERFACE (PROGRAMMED TRANSFERS, WITH NAF REG & CONNECTOR TO DMA OPTION CA-11-FN)	CA-11-FP	D E C	2	/75	(14)
	PDP-11 DMA INTERFACE FOR CA-11-FP (8 DMA CHANNELS, MI OR LIST MODE, 16BIT WC, CA, OFFSET FOR EACH CHANNEL, LIMIT REGISTER)	CA-11-FN		2	/75	(14)
	POWER SUPPLY FOR CA-11-F CONTROLLER (GENERATES AC LO & DC LO)	CA-11-PS		NA	/75	(14)
	DEDICATED CRATE CONTROLLER FOR PDP-11 (MULTIPLE TRANSFER OR AUTO ADDRESS SCAN)	DC011	EG&G/ORTEC	2		(7)
	SINGLE CRATE CONTROLLER FOR PDP-8/E ADDR.-SCAN MODE, DMA I/O, MAX 22 LAMS)	LEM-52/32.1	EISENMANN	3		(13)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPP
	CRATE CONTROLLER TYPE CCA-1 ACCORDING TO EUR4600 SPECS WITH CERN OPTIONS	DD 200-2905	DORNIER	2	/74	
	GAMAC CRATE CONTROLLER TYPE A-1 (CONFORMS TO EUR4600 SPECIFICATIONS)	CC101	EG&G/ORTEC	2	/72	
	ESONE TYPE A.1 CRATE CONTROLLER (CONFORMS TO EUR4600 SPECS, INCL CERN HOLD OPTION)	CC 2405	GEC-ELLIOTT	2	/73	
	CRATE CONTROLLER TYPE A-1 (CONFORMS TO EUR4600 SPECS)	CCA-1	JOERGER	2	/72	(5)
N	CRATE CONTROLLER TYPE A-2 WITH AUXILIARY CONTROLLER BUS	CCA-2	JOERGER	2	01/77	
	BRANCH CRATE CONTROLLER/TYP A-1 (CONFORMS TO EUR 4600 SPECS, 1972)	70A	JORWAY	2	/73	(7)
	TYPE A-1 CRATE CONTROLLER	3900	KINETIC SYSTEMS	2	/73	
	TYPE A-1 CRATE CONTROLLER (CONFORMS TO EUR4600 SPECS)	CAM 1.01	METRIMPEX	2	/73	
	CRATE A-1 CONTROLLER (CONFORMS TO EUR 4600 SPECS)	9016	NUCL. ENTERPRISES	2		(4)
	CRATE CONTROLLER TYPE A (CONFORMS TO EUR4600 SPECS)	C 106	ROT	2	/71	
	CRATE CONTROLLER TYPE A-1 (CONFORMS TO EUR4600 SPECS)	J CRC 51	SCHLUMBERGER	2	/72	(1)
	A-1 CRATE CONTROLLER (CONFORMS TO EUR4600 SPECS, INCL CERN SPEC HOLD LINE)	ACC 2034	SEN	2	/72	
.232 LAM GRADERS						
	LAM GRADER (24 BIT MASK REGISTER, PLUG-IN PATCH BOARD, CERN 064)	LG 2401	GEC-ELLIOTT	1	/72	
N	SGL ENCODER (GOES WITH SERIAL CRATE CONTROLLER). LAM ENCODER	SGL 1	GEC-ELLIOTT	1	/77	
	LAM GRADER (INTERNALLY PATCHABLE, SWITCH SELECTABLE MULTI-CRATE BG-RESPONSE)	LG	JOERGER	1	/73	(8)
	LAM GRADER-SORTER	75	JORWAY	1	/73	(7)
	LAM GRADER (24 BIT)	CAM 1.10	METRIMPEX	1	/74	
	LAM GRADER (DESIGNED TO EUR 4600 SPECS)	064	NUCL. ENTERPRISES	1	/72	(4)
	PRIORITY GRADER	9037	NUCL. ENTERPRISES	1		(10)
	LAM GRADER (CERN SPECS 064)	LG 2001	SEN	1	/72	(6)
	LAM GRADER	EC 370	SENSION	1	/76	
	LAM GRADER(24I/P-124MASKED-1SUM-LAM-LEDS 24G.X24M.LAM*SUM-TOG.LAM1-7-PATCHPANEL)	C-LG-24	WENZEL ELEKTRONIK	1	/75	(14)
.233 TERMINATIONS (SIMPLE, WITH INDICATORS)						
	BRANCH HIGHWAY TERMINATOR	6601	BI RA SYSTEMS	1	/73	
	BRANCH TERMINATION UNIT (WITH BUILT-IN CABLE)	1592	BORER	1	/73	
	BRANCH TERMINATION UNIT (NON INDICATING)	BT 6503	GEC-ELLIOTT	2	/72	
	BRANCH TERMINATION UNIT	BT 6601	GEC-ELLIOTT	2	/71	
	BRANCH TERMINATOR	BT	JOERGER	2	/72	
	BRANCH TERMINATION WITH INTEGRAL CABLE	50C	JORWAY	2	/72	
	BRANCH TERMINATOR IN A CONNECTOR	BT-01	KINETIC SYSTEMS	NA	/73	
	BRANCH TERMINATOR	CAM 1.11-1	METRIMPEX	2	/72	
	BRANCH TERMINATOR	J BT 20	SCHLUMBERGER	2	/71	
	BRANCH TERMINATOR (NON-INDICATING, 4J CM FLYING CABLE WITH BRANCH CONNECTOR) (DITTO, XXX= CABLE LENGTH IN CM)	BT 231	SEMRA-BENNEY	1	/74	
		BT 231XXX		1	/74	
	CRATE CONTROLLER BUS TERMINATOR FOR A-1 CRATE CONTROLLER	BT 2042	SEN	1	/72	
	BRANCH HIGHWAY TERMINATOR	BHT 2055	SEN	1	/74	(11)
	BRANCH TERMINATOR (FULL BRANCH MONITOR WITH INTERNAL STORAGE AND LED DISPLAY)	BT 6502	GEC-ELLIOTT	2	/72	
	VISUAL BRANCH TERMINATOR (STORES AND DISPLAYS ON LEDS BRANCH SIGNALS)	VBT	JOERGER	2	/72	(6)

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	BRANCH TERMINATION WITH BRANCH DISPLAY AND INTEGRAL CABLE	51C	JORWAY	2	/72	
	BRANCH TERMINATOR (WITH INDICATORS)	CAM 1.11-2	METRIMPEX	2	/72	
	.234 BRANCH EXTENDERS, BUS EXTENDERS					
	DIFFERENTIAL BRANCH EXTENDER (FOR EXTENDING BRANCHES UP TO 3 KM)	DBE 6501	GEC-ELLIOTT	2	/71	
	BRANCH HIGHWAY TRANSCEIVER FOR LONG DISTANCE TRANSMISSION	J BHT 10	SCHLUMBERGER	2		(4)
	SERIAL DRIVER (TERMINATES BRANCH HIGHWAY AND RETRANSMITS COMMAND SERIALLY)	SD	JOERGER	2		
	SERIAL RECEIVER (RECEIVES SERIAL DATA, DRIVES TYPE A-1 SYSTEM, OPTICAL ISOL)	SR		2		
	UNIBUS EXTENDER, TRANSMITTER	1594	BORER	2	/72	
	RECEIVER	1595		2	/72	
	(FOR DISTANCES UP TO 200 METRE OR MORE)					
	LIGHT PEN	9301	NUCL. ENTERPRISES		/76	
	JOYSTICK	9302	NUCL. ENTERPRISES		/76	
	NUMERICAL CONTROL SYSTEM, CAMPUS (CAMAC MICRO PROCESSOR UNIVERSAL SYSTEM)	C 500	RDT		/76	
	.3 TEST EQUIPMENT *****					
	.31 SYSTEM RELATED TEST GEAR					
	SYSTEM CHECK OUT UNIT. STORES DATA & COMMAND IN READABLE REGS. PROGRAMMABLE L	DTM 4	GEC-ELLIOTT	1	/74	
	SYSTEM TEST UNIT (FOR EXECUTIVE SUIT SYSTEM CONFIGURATION, SEE MX-CTR-2)	SC-TST-1	GEC-ELLIOTT	3	/72	
	.311 COMPUTER SIMULATORS					
	POP-11 SIMULATOR	6101	BI RA SYSTEMS	NA	/72	(5)
	TEST CONTROLLER WITH PROGRAM PLUGBOARD	SPS 2048	NUCL. ENTERPRISES	2	/75	(12)
	.32 BRANCH RELATED TESTERS/CONTROLLERS AND DISPLAYS					
	.321 BRANCH TESTERS/CONTROLLERS (MANUAL, PROGRAMMED)					
	MANUAL BRANCH TESTER (TYPE A SYSTEM TEST SET WITH MX-CTR-2 & BR-CPR-2)	SC-TST-1	GEC-ELLIOTT	7		
	MANUAL CONTROLLER (SWITCHES FOR N,A,F,C, I,Z,OP-MODES-REPEAT,SINGLE & STEPPING)	140	POLON	4	/75	
	TEST MODULE (USED IN SYSTEM TEST OF READ/WRITE CAPABILITY)	TM024	EG&G/ORTEC	2	/71	
	BRANCH HIGHWAY TEST POINT MODULE(24 DIRECT, 22 INDIRECT ACCESS POINTS FOR TEST)	CD 18104	HUGHES	NA	/71	(3)
	BRANCH HIGHWAY REMOVE INHIBIT MODULE (REMOVES INHIBIT FROM BCR/BA/3F/BN/BTA)	CD 18105	HUGHES	NA	/71	(3)
	MANUAL BRANCH DRIVER (FOR TESTING TYPE A SYSTEMS)	HBD	JOERGER	5	/72	(6)
	MANUAL BRANCH CONTROL SET (COMPRISING TYPES C COB 10 AND T CMB 10)	C CMB 10	SCHLUMBERGER	NA	/71	(1)
	.33 DATAWAY RELATED TESTERS AND DISPLAYS					
	.331 DATAWAY CONTROLLERS/TESTERS MANUAL, PROGRAMMED)					
	N 24 BIT WORD GENERATOR	WG 2401	GEC-ELLIOTT	0	/77	
	N WORD GENERATOR 24 MIN. TOGGLE SWITCHES, LED DISPLAY	WGR 241	GEC-ELLIOTT	1	/77	
	MC WORD GENERATOR FOR USE WITH TYPE 140 (24 BITS WORD TO W BUS LINES)	232	POLON	1	/75	
	WORD DISPLAY FOR USE WITH TYPE 140 (24 BITS REGISTER WITH INDICATION)	260	POLON	1	/75	
	TEST CONTROLLER24	744006/D	WEHRMANN	1	/75	
	TEST CONTROLLER25	744006/E	WEHRMANN	1	/75	
	MANUAL CRATE CONTROLLER	GFK-LEM	EISENMANN	8	/71	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	MANUAL CRATE CONTROLLER	MCC	JOERGER	5	/72	
	MANUAL DATAWAY TEST CONTROLLER	CAM 7.01	METRIMPEX	3	/73	
	MANUAL CRATE CONTROLLER	J CMC 10	SCHLUMBERGER	8	/71	(1)
	TEST MODULE FOR CRATE CONTROLLER AND DATAWAY	DTM 2040	SEN	1	/72	
	DYNAMIC TEST CONTROLLER (GENERATES ALL POSSIBLE CAMAC COMMANDS IN SINGLE CRATE)	TC 2403	GEC-ELLIOTT	3	/71	
	DYNAMIC TEST CONTROLLER (2 SIMULT TRANSF SINGLE, STEP-BY-STEP AND CONTINUOUS MODE)	C 108	RDT	8	/71	(4)
	DATAWAY SERVICE MODULE	J DS 10	SCHLUMBERGER	1	/74	(12)
	MANUAL INPUT/OUTPUT (TEST UNIT PROVIDES MANUAL DATA INPUT & VISUAL DATA OUTPUT)	MI/O	JOERGER	1	/75	
	.332 DATAWAY DISPLAYS					
	DATAWAY DISPLAY	JDS 20	SCHLUMBERGER	1	/76	
	DATAWAY DISPLAY	734653/A	WEHRMANN	2	/75	
	CAMAC TEST MODULE/DATAWAY DISPLAY	6102	BI RA SYSTEMS	2	/73	
	CAMAC DATAWAY DISPLAY (DATAWAY SIGNAL PATTERN STORED/DISPLAYED, 2 TEST MODES)	1801	BORER	1	/71	(1)
	CAMAC DATAWAY TEST AND DISPLAY MODULE	LEM-52/16.2	EISENMANN	1		
	DATAWAY MEMORY (DISPLAY + READABLE REGISTER)	C 340	INFORMATEK	1	/72	
	DATAWAY DISPLAY (STORES AND DISPLAYS DATAWAY SIGNALS, FARMQXCIZS1S2BP1P2)	DD	JOERGER	1	/72	(6)
	DATAWAY DISPLAY (SEPARATE R & W DISPLAY, TRACKS OR STORES, MANUAL CLEAR)	202	JORWAY	1	/74	(11)
C	DATAWAY DISPLAY & SYSTEM MONITOR	3291	KINETIC SYSTEMS	1	/72	
C	CONTROL MODULE FOR MODEL 3291	3295		1	/76	
	DATAWAY DISPLAY (WITH MEMORY, FOLLOW, ON-LINE & TRIGGER MODES)	9554	NUCL. ENTERPRISES	1		(13)
C	DATAWAY DISPLAY (DISPLAY OF DATA & NAF/INSTR REGISTERS)	C 76451-A16-A2	SIEMENS	1	/73	(6)
	DATAWAY DISPLAY (DISPLAYS AND STORES DATAWAY SIGNAL PATTERN)	C-D1-24	WENZEL ELEKTRONIK	1	/72	
	.34 MODULE RELATED TEST GEAR (MODULE EXTENDERS)					
	CAMAC MANUAL MODULE TESTER	6103	BI RA SYSTEMS	NA	/74	
	.341 MODULE EXTENDERS					
	CAMAC EXTENDER MODULE	8201	BI RA SYSTEMS	1	/73	
N	CAMAC EXTENDER MODULE	EC030	EG&G/ORTEC	1	/73	
	EXTENSION FRAME (MODULE EXTENDER)	EF 1-1	GEC-ELLIOTT	1	/71	
	MODULE EXTENDER (+AND-6V, +AND-24V FUSED, RETRACTABLE LOCKING DEVICE)	ME	JOERGER	1	/72	
	EXTENDER MODULE (FUSED +E-6V AND +E-24V, SUPPORT ARM)	11A	JORWAY	1	/74	
	EXTENDER MODULE (W/36 POS PC EDGE CONN)	1100	KINETIC SYSTEMS	1	/71	(4)
	EXTENDER CARD	1150	KINETIC SYSTEMS	1		
	DATAWAY EXTENDER MODULE	9073	NUCL. ENTERPRISES	1	/75	
	FLEXIBLE 86 WAY EXTENDER	9075	NUCL. ENTERPRISES	NA	/76	
	BUFFERED EXTENDER (25NSEC PROPAGATION DELAY, 60 CM FLEXIBLE CABLE)	060	POLON	1	/75	
	EXTENDER MODULE	061	POLON	1	/73	
	EXTENDER	CEX	RDT	1	/72	
	MODULE EXTENDER	ME 2030	SEN	1	/70	
	EXTENDER (XXX=LENGTH OF CABLE IN MM BEYOND RACK, SINGLE WIDTH)	577/XXX	TEKDATA	1	/72	(5)
	(DITO, DOUBLE WIDTH, FIXED SIDES)	5813/XXX		2	/73	
	(DITO, DOUBLE WIDTH, HINGED SIDES)	5824/XXX		2	/75	
N	(DITO, DOUBLE WIDTH, HINGED SIDES, RECESSED GRATE)	4223		2	/77	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	CANAC-EXTENDER MODULE	C E M	WEHRMANN	1	/76	
	9030 INTERFACE CARD EXTENDER	9074	NUCL. ENTERPRISES	NA	/76	
	.37 OTHER TEST GEAR FOR CANAC EQUIPMENT					
	TRANSIENT GENERATOR(MODULE NOISE SUSCEPT IBILITY TESTED BY TRANSIENTS ON DC LINES	TG	JOERGER	1	/73	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
.4	CRATES, SUPPLIES, COMPONENTS, ACCESSORIES *****					
.41	CRATES AND RELATED COMPONENTS/ACCESSORIES -- CRATES WITH/WITHOUT DATAWAY AND SUPPLY, BLANK CRATES, CRATE VENTILATION GEAR					
.411	CRATES WITH DATAWAY AND SUPPLY					
	CRATE (270VA, COOLED, MODULAR POWERED BY MAX 8X1922 OR 1X1923/1925 + MAX 4X1922) VOLTAGE REGULATOR (FOR +0R-24V/6A, +/-12V/7A, +/-6V/8A/16A/24A) VOLTAGE REGULATOR (+/-6V 25A MAX, OR 40A MAX WITH EXTERNAL +6V SUPPLY) VOLTAGE REGULATOR (+AND-6V, 25A MAX, 270W RATING, USABLE WITH 4X1922)	19C2A 1922 1923 1925	BORER	25	/69	
	CAMAC MINICRATE (19 INCH RACK MOUNTING) (+6V/15A, -6V/5A, +24V/2A, -24V/2A, 200W)	307.100CC	EDS SYSTEMTECHNIK	17	/73	(10)
	POWERED CRATE	MC200	EG&G/ORTEC	25	/74	
	POWERED CRATE (INCL. CRATE AND POWER SUPPLY COOLING TO SUPPL CP 1 SPEC)	PS 004/PA1/VC 0040	GEC-ELLIOTT	25	/75	
	POWERED CRATE (+/-6V/40A, +/-24V/8A, 200V/.1A, 117V AC, MAX 300W)	CPC/14	GRENSON		/73	
C	POWERED CRATE (+/-6V/20A, +/-24V/5A, 200V/0.03A, 117VAC/0.5A, MAX 200W)	CPC/16			/75	
N	POWERED CRATE 500W. (+/-6V 65A/25A, +/-24V/2A TO CERN SPEC 099)	CPC/25	GRENSON		/77	
	MINICRATE-PORTABLE OR RACK-INTEGRAL BLOWER AND POWER SUPPLY - 10 STATIONS	463	JORWAY	10	/76	
	POWERED CRATE	1500/25	KINETIC SYSTEMS	NA	/73	
	POWERED CRATE (42A CAPABILITY ON +6V)	1500/42	KINETIC SYSTEMS	NA		
	POWERED CRATE (MAX 400W, +/-24V/3A, +/-12V/3A, +/-6V/24A, -6V/6A, +200V/.1A, AC)	CAM 9.01	METRIMPEX	24	/72	
	POWERED CRATE (+AND-6V/25A, +AND-24V/6A, INCL POWER DESIGN TYPE AEC432 SUPPLY)	NSI-875CC100AEC432	NUCL. SPECIALTIES	25	/72	
	POWERED CRATE (6U, VENTILATED, NO FAN, 130W +6V/15A, -6V/4A, +AND-24V/2A, +200V/50MA)	2000	POLON	25	/71	
	POWERED CRATE (6U, WITH DATAWAY, 130W MAX, +6V/15A, -6V/4A, VENTILATED, NO FAN)	2001	POLON	25	/76	
	POWERED CRATE (7U, WITH DATAWAY, 130W MAX, +6V/15A, -6V/4A, +/-24V/2A, 4 FANS, FILTER)	2002	POLON	25	/76	
	POWERED CRATE (7U, WITH DATAWAY, 300W MAX, +/-6V/25A, +/-24V/6A, 4 FANS, FILTER)	2003	POLON	25	/76	
	POWERED CRATE (8U, WITH DATAWAY, 300W MAX, +/-6V/25A, +/-24V/6A, 4 FANS, FILTER)	2004	POLON	25	/76	
	POWERED CRATE	CCHN-CSAN	RDT	25	/71	
	POWERED CRATE (SEE P7 ALJ 13)	C7 ALJ 13 DW	SAPHYMO-STEL	25		(1)
	POWER SUPPLY (CAMAC CRATE)	CM5125/53/DW/BLOCS	SAPHYMO-STEL	25	/72	
	POWER SUPPLY CRATE (+6V/24A, -6V/16A, +/-24V/3A, 300W)	CJAL 42	SCHLUMBERGER		/76	
	POWER CRATE (200W MAX, +6V/25A, -6V/10A, +AND-12V/3A, +AND-24V/3A, 200V/0.05A)	PC 2006/B	SEN	25	/70	
	POWER CRATE (200W MAX, +6V/25A, -6V/10A, +AND-24V/3A, 200V/0.05A)	PC 2006/C		25	/71	
	COMPLETE POWER CRATE	CPC 2057	SEN	25	/74	(11)
	POWERED CRATE (500W, +6V/65A OR 25A, -6V/25A OR 65A, MAX TOT CURRENT IS 80A)	HPC 2075	SEN	25		(14)
	POWERED CRATE (200W, +/-6V/10A, +/-12V/2A, +/-24V/3A)	SPC 2077	SEN	25		(14)
N	POWERED CRATE	0426	SENSION	0	/76	
N	POWERED CRATE (+6V/25A, -6V/1A, +12V/2A, -12V/2A, +24V/2.5A, -24V/2.5A)	C72451-A1672-A1	SIEMENS	25	/76	
N	POWERED CRATE (+6V/25A, -6V/1A)	C72451-A1672-A2		25	/76	
N	POWERED CRATE (+6V/25A, -6V/1A, +/-12V/2A)	C72451-A1672-A3		25	/76	
N	POWERED CRATE (+6V/25A, -6V/1A, +24V/2.5A, -24V/2.5A)	C72451-A1672-A4		25	/76	
N	POWER SUPPLY MODULE (+12V/2A, -12V/2A)	C72451-A1672-B3			/76	
N	POWER SUPPLY MODULE (+24V/2.5A, -24V/2.5A)	C72451-A1672-B2			/76	
N	ANALOG BUS FOR CRATE	C72451-A1672-D1		25	/76	
	CAMAC-CRATE 500 W (CERN SPEC. 099)	FHD-H1	WEHRMANN		/75	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	CAMAC-CRATE 300 W	FST-HV1	WEHRMANN		/76	
	CAMAC-CRATE 400 W	FDS-HV1	WEHRMANN		/75	
	POWERED CRATE (SEE CRATE C-CF AND SUPPLY P-156 FOR RATINGS)	C-CF + P-156	WENZEL ELEKTRONIK	25	/75	
	POWERED CRATE (SEE C-CF & SUPPLY P-264)	C-CF + P-264		25	/75	
	POWERED CRATE (SEE C-CF & SUPPLY P-300F)	C-CF + P-300F		25	/75	(14)
	.412 CRATES WITH DATAWAY, WITHOUT SUPPLY					
	VENTILATED CRATE (HEAVY DUTY 25 STATION FASTON CONNECTORS, 6U HIGH)	VC 0022	GEC-ELLIOTT	25	/74	
	(SAME BUT WITH ALL PATCH LINES BUSSED AS PER COGELAB REQUIREMENTS)	VC 0030		25	/74	
	5U CRATE 25 STATION HEAVY DUTY, FITS TO PS 0004 USING ADAPTOR PA 1.	VC 0040	GEC-ELLIOTT	25	/75	
	CONVERTS FASTON CONNECTORS TO RECOMMENDED FIXED POWER CONNECTOR ON CHOSEN CRATE	/AMP	GEC-ELLIOTT		/73	
	CAMAC CRATE VERDRAHTET (EMPTY CRATE WITH WIRED DATAWAY)	2.084.000.6	KNUERR	25	/73	(2)
	CRATE	9070	NUCL. ENTERPRISES	24	/74	
	CAMAC COMPATIBLE CRATE (WIRED)	NSI-875 DB-WV	NUCL. SPECIALTIES	25	/71	
	CAMAC CRATE (WIRED)	NSI-875 CC 100	NUCL. SPECIALTIES	25	/72	
	UNPOWERED CRATE WITH DATAWAY (5U, VENTILATED, NO FAN, 25 STATIONS)	002	POLON	25	/75	
	UNPOWERED CRATE WITH DATAWAY (6U, EMPTU, VENTILATED, NO FAN)	012	POLON	25	/71	
	UNPOWERED CRATE WITH DATAWAY (360 MM)	CM 5125/33/DW	SAPHYMO-STEL	25		
	UNPOWERED CRATE WITH DATAWAY AND CONNECTORS	UPC 2029		25	/70	
N	UNPOWERED CRATE	0427	SENSION	0	/76	
	CAMAC-CRATE WITH DATAWAY	DIFFERENT	WEHRMANN		/74	
	WIRED CRATE (HEAVY DUTY, 3 FAN & MONIT. UNIT, 6U. USE WITH P-156, P-264, P-300F)	C-CF	WENZEL ELEKTRONIK	25	/75	(14)
	.413 CRATES WITHOUT DATAWAY, WITH SUPPLY					
	CAMAC CRATE (+6V/25A,-6V/12.5A,+1-24V/6A,+1-12V/4A)	DD 200-3001	DORNIER	NA	/74	
	(SAME WITHOUT +1-12V SUPPLY)	DD 200-3002		NA	/74	
	CRATE, PLUG IN PS, 25 STATIONS, TRI. FAN	9071/1	NUCL. ENTERPRISES	NA	8/76	
	.417 BLANK CRATES AND OTHER COMPONENTS AND ACCESSORIES					
	RACK BLOWER (1 U HIGH, MAY BE USED WITH AIR SCOOP NSI-12109-AS FOR HI EFFIC.)	NSI-05235-RB	NUCL. SPECIALTIES	NA	/75	
	VENTILATION SLOT UNIT,1U,NO FAN & FILTER	076	POLON	25	/75	
	FORCED VENTIL.UNIT,2U,4 FANS & FILTER	077	POLON	25	/75	
	CAMAC-TEST BOARDS (EXP. CARDS)	A	WEHRMANN	NA	/75	
	CAMAC-TEST BOARDS (EXP. CARDS)	B	WEHRMANN	NA	/75	
	CRATE (5U,EMPTY, 25 STATIONS)	MCF/5CAM/S/25	IMHOF-BEDCO	25	/71	
	(SAME BUT WITH 24 STATIONS)	MCF/5CAM/S/24		24	/72	
	CRATE (6U,EMPTY,WITH VENTILATION BAFFLE, 25 STATIONS, HARWELL TYPE 7000)	MCF/6CAM/SV/25		25	/71	
	(SAME BUT WITH 24 STATIONS)	MCF/6CAM/SV/24		24	/72	
	CRATE (6U,EMPTY,WITH VENTILATION BAFFLE, REMOVABLE PANEL, 25 STNS, HARWELL 7000)	MCF/6CAM/SVR/25		25	/71	
	(SAME BUT WITH 24 STATIONS)	MCF/6CAM/SVR/24		24	/72	
	CAMAC CRATE (EMPTY)	2.084.000.6	KNUERR	25	/70	(2)
	CAMAC CRATE (EMPTY,INCL HARDWARE SUPPLY CHASSIS AND VENTILATION PANEL)	2.086.000.6		25		(2)
	CAMAC COMPATIBLE CRATE	NSI 875 DB/WV	NUCL. SPECIALTIES	25	/70	
	CAMAC CRATE (UNWIRED)	NSI 875 CC 100	NUCL. SPECIALTIES	25	/72	(5)
	CHASSIS CAMAC (6 UNITES AVEC FENTE DE VENTILATION, 525 MM PROFONDEUR)	9905-1-05	OSL	25	/71	
	(360 MM PROFONDEUR)	9905-2-05		25	/71	
	CAMAC CRATE WITH VENTILATION BAFFLE (6U, 525MM DEPTH)	9905HV03/98/525	OSL	25		
	(SAME BUT WITH 460MM DEPTH)	99055HV3AVD/98/460		25		
	(SAME BUT WITH 360MM DEPTH)	99055HV3AVD/98/360		25		

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	CABLE EXTENSION MODULE (JOINS TWO BRANCH HIGHWAY CABLES)	CD 18106	HUGHES		/72	
	BRANCH HIGHWAY TO PDP-11 (COMPLETE WITH CONNECTORS, XXX= LENGTH IN METERS)	5805/P/132/XXX	TEKDATA		/73	(8)
	BRANCH HIGHWAY JUNCTION BOX	5849	TEKDATA		/75	
.432 DATAWAY RELATED (CONNECTORS, BOARDS, ASSEMBLIES)						
N	CAMAC DATAWAY SOCKET (86 CONTACTS) FLOW SOLDER CONTACT	R50 00148	CARR	NA	/76	
N	CAMAC DATAWAY SOCKET (86 CONTACTS) MINIWRAP CONTACT	R50 00168	CARR	NA	/76	
	ADDRESS & FUNCTION DECODING PC	AFD 2066	SEN			
	DATAWAY MOTHERBOARD (WITH CONNECTORS)	1186	WEHRMANN		/74	(10)
	DATAWAY SOCKET (MOTHERBOARD COMPLETE WITH 25 CONNECTORS)	CIM	RDT		/70	
	DATAWAY MINI WRAPPING (MOTHERBOARD WITH 25 DATAWAY CONNECTORS)	J/DW	SAPHYMO-STEL		/71	
	DATAWAY CONNECTOR, EDGE TYPE II (WIRE WRAP)	1-163633-0	AMP AG		/70	
	(TERMI-POINT/WIRE WRAP)	1-163634-0			/70	
	(MOTHERBOARD SOLDER)	1-163635-0			/70	
	(WIRE SOLDER)	1-163636-0			/70	
	DATAWAY CONNECTOR WITH CARD GUIDES HAND SOLDER	PCBD43S78LE00	BURNDY	NA	/74	
	DATAWAY CONNECTOR WITH CARD GUIDES DIP SOLDER	PCBD43K78LE00	BURNDY	NA	/74	
	DATAWAY CONNECTOR WITH CARD GUIDES MINI WRAP	PCBD43N78LE00	BURNDY	NA	/74	
	DATAWAY CONNECTOR (MINIWRAP)	EAA 043 D301	HUGHES		/71	(2)
	CAMAC DATAWAY CONNECTOR (* INSERT A FOR SOLDER TAG, B SOLDER PIN, C MINI WRAP)	G03D 086P 2B + BL	ITT CANNON		/73	(6)
	CAMAC-LEISTE (DATAWAY CONNECTOR, WIREWRAP)	4.000.060.0	KNUERR		/70	
	DATAWAY FEMALE CONNECTOR, MINI-WRAP *=1 FOR WIRE SOLDER, 5 FOR BOARD SOLDER	2422 061 64334 2422 061 643*4	PHILIPS		/71	(5) (5)
	DATAWAY MALE CONNECTOR (MATING THE CRATE MOUNTED 86-WAY CONNECTOR SOCKET)	2422 060 14314	PHILIPS		/72	(5)
C	CONNECTEUR 254 DOUBLE FACE (DATAWAY CONNECTOR, WIRE WRAP)	254 DF 43 F2W3	SOCAPEX		/70	
C	(MOTHERBOARD SOLDER)	254 DF 43 F2Y			/70	
C	(WIRE SOLDER)	254 DF 43 F2Z			/70	
	DATAWAY CONNECTOR (MINI-WRAP) (WIRE-SOLDER)	8606 86 21 15 000 8606 86 21 10 000	SOURIAU		/71	
	(FLOW SOLDER)	8606 86 21 14 000				
	DATAWAY CONNECTOR (*=2 FLOW SOLDER, *=3 SOLDER LUGS, *=4 MINIWRAP, AU PLATING)	C 288* CSP 221	UECL		/71	
	(FLOW SOLDER, NI + AU PLATING)	C 2885 CSP 221				
	(13 MINIWRAP CONTACTS, OTHER ARE FLOW SOLDER, NI + AU PLATING)	C 2886 CSP 221				
	(*=7 MINIWRAP, *=8 SOLDER LUGS, NI + AU PLATING)	C 288* CSP 221				
	MOUNTING BRACKETS FOR ABOVE	C 8523				
	DATAWAY CONNECTOR HOOD (43-WAY DOUBLE SIDED, 2.54 MM PITCH CONTACTS)	S 4051	TEKDATA	1	/75	
.433 MODULE RELATED (BLANK MODULES, PATCHBOARDS ETC)						
	CAMAC CARRYING CASE (TAKES 8 MODULES)	C/NCC8-4	HENESA		/73	
	CAMAC CARRYING CASE (TAKES 12 MODULES)	C/NCC12-6	HENESA		/73	
	EMPTY MODULE (SAME BUT WIDTH 2,3,4,5,6)	3210	INDUSTR. FABR.	1	/75	
	BREAD BOARD (FOR 84 IC)	090	POLON		/74	
	PROTOTYPE ASSEMBLY MODULE (FULL A,F, DECODING, 84 WIRE WRAPPED IN SOCKETS)	091	POLON	2	9/76	
	BREAD BOARD MODULE 1M (MODULE WITH 090 TYPE)	092	POLON	1	/75	
	BREAD BOARD MODULE 2M (MODULE WITH 090 TYPE)	093	POLON	2	/75	
	BLANK MODULE KIT (SINGLE WIDTH) (SAME, *=2,3 & 4 FOR CORRESP WIDTH)	BM 1 BM *	GEC-ELLIOTT	1	/73	

NO	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
	SINGLE CARD MOUNTING KIT (EMPTY MODULE, SHORT SCREEN PLATE) (SAME, * = 2, 3 & 4 FOR CORRESP WIDTH)	CAM/M1/A	IMHOF-BEDCO	1	/72	
	SINGLE CARD MOUNTING KIT (EMPTY MODULE, (EMPTY MODULE, LONG SCREEN PLATE) (SAME, * = 2, 3 & 4 FOR CORRESP WIDTH)	CAM/M*/A CAM/M1/B CAM/M*/B		1	/73 /72 /73	
	CAMAC HARDWARE	CH-001	KINETIC SYSTEMS	1	/71	(4)
	CAMAC-KASSETTE (EMPTY MODULE, WIDTH 1/25) (* = 2, 3, 4, 5, 6 FOR CORRESPONDING WIDTHS)	2.090.001.8 2.090.00*.8	KNUERR	1	/70 /70	(2)
	CAMAC COMPATIBLE MODULE (EMPTY, WIDTH=1, ALSO IN 2 & 3 UNIT WIDTHS)	NSI 875 DM	NUCL. SPECIALTIES	1	/70	
	CAMAC MODULE (EMPTY MODULE HARDWARE) (SAME, * = 2, 3, & 4 FOR CORRESP WIDTH)	NSI 875 CM-100-1 NSI 875 CM-100-*	NUCL. SPECIALTIES	1	/72 /72	(5) (5)
	CAMAC MODULE, SHIELDED (EMPTY, 1 WIDTH) (SAME, * = 2, 3, AND 4 FOR CORRESP WIDTH)	NSI-875-DM/SPH-1 NSI-875-DM/SPH-*	NUCL. SPECIALTIES	1	/71 /71	
	CAMAC MODULE (EMPTY, W=1/25) (* = 2, 3, 4, 6 & 8 FOR CORRESP WIDTH) (* = 0, 12 FOR WIDTH 10 & 12 RESPECTIVELY)	J21 02* 03*	POLON	1	/71 /71 /71	
	EMPTY MODULE 1 UNIT (SAME, * = 2, 3 & 4 FOR CORRESP WIDTH)	CCA 1 CCA *	RDT	1	/70	
C	EMPTY MODULE SCREENED (1 WIDE, ADD TYPE SUFFIX S FOR SHORT, L FOR LONG SCREEN) (DITO, * = 2, 3, 4 OR 6 FOR CORRESP WIDTH)	CM1 CM*	SEMRA-BENNEY	1	/73	
	CAMAC MODULE (EMPTY, 1/25 CARD MODULE) (* = 2, 3 & 4 FOR CORRESPONDING WIDTH)	CAMCAS 1 CAMCAS *	WILLSHER & QUICK	1	/71	(2) (2)
	CAMAC MODULE (EMPTY, 1/25 CARD MODULE) (* = 2, 3 & 4 FOR CORRESPONDING WIDTH)	CAMCAS 1-G CAMCAS *-G	WILLSHER & QUICK	1	/72 /72	
	CAMAC MODULE (EMPTY, 1/25 SCREENED MODULE) (* = 2, 3 & 4 FOR CORRESPONDING WIDTH)	CAMMOD 1-G CAMMOD *-G	WILLSHER & QUICK	1	/72 /72	
	CAMAC MODULE (EMPTY, 2/25 SCREENED MODULE) (* = 3 & 4 FOR CORRESPONDING WIDTH)	CAMMOD 2 CAMMOD *	WILLSHER & QUICK	2	/71	(2) (2)
	EMPTY MODULE WITH HINGED CARDS (2/25) (3/25)	9905-CB2 9905-CB3	OSL/WILLSHER&QUICK	2 3	/73 /73	
	EMPTY MODULE (1/25) (* = T2, T3, T4, T5, T6, T8, T10, AND T12 FOR CORRESPONDING WIDTH)	9905-5T1 9905-5**	OSL/WILLSHER&QUICK	1	/73 /73	
	TIROIR MODULAIRE POUR COMMANDE	9905-TC-1	OSL	1	/71	
	BLANK CAMAC MODULE PC BOARD (GOLD PLATED & ETCHED FINGERS BOTH SIDES)	NSI-04071-PC	NUCL. SPECIALTIES		/71	
	MK-1 KLUGE MODULE (131 MIXED 14, 16, 24 PIN SOCKETS)	8301	BI RA SYSTEMS	2	/73	
	MK-5 KLUGE MODULE (HAS 70 14 PIN, 13 AND 2 24 PIN WIRE WRAP SOCKETS)	8305		2	/73	
	MK-6 KLUGE MODULE (HAS 34 14 PIN, 16 16 PIN & 3 24 PIN WIRE WRAP SOCKETS)	8306		1	/73	
	CAMAC-UNIVERSAL-BOARD (PRINTED CARD MODU- LE WITH 28 14-PIN + 28 16-PIN SOCKETS)	00 200-2900	DORNIER	2	/71	
	CAMAC PROTOTYPE ASSEMBLY BOARDS (MX B1 HAS 60 SITES, MX B2 HAS 80 SITES) (MX B3 HAS 60 SITES, MX B4 HAS 80 SITES, MX B3/MX B4 INCLUDE 5V CIRCUIT)	MX B1/MX B2 MX B3/MX B4	GEC-ELLIOTT	NA	/71 /71	
	PRINTED CIRCUIT TEST BOARD	10	JORWAY	1	/71	
	KLUGE BOARD FOR WIRE WRAP	15	JORWAY	3	/74	
	KLUGE CARD WITH 36 POSITION PC CONNECTOR	2000-36	KINETIC SYSTEMS	1	/71	(4)
	KLUGE WITH 52 POSITION 2D CONNECTOR KLUGE WITH 25 POSITION D CONNECTOR	2000-52 2000-25	KINETIC SYSTEMS	1 1	/73	
	EXPERIMENTIERPLATTE (PRINTED CIRCUIT BOARD) EXPERIMENTIERPLATTE (P.C.B.)	4.000.087.0 4.000.088.0	KNUERR	NA	/70 /73	
	DECODED MATRIX BOARD (FOR PROTOTYPE WIRING OF 64 14-PIN SITES, A&F DECODED)	D 21 621	NUCL. ENTERPRISES	0	/74	
	MODULE PRINTED CIRCUIT BOARDS (TAKE 24, 16 OR 14 PIN, ON THE WHOLE 1092 PINS)	CBP 1	RDT	NA	/72	
	BLANK MODULE (COMPLETE WITH PRINTED BOARD FOR 69 INTEGRATED CIRCUITS, 1 U WIDTH) (SAME, 2U WIDTH)	3M 2020/1U 3M 2020/2U	SEN	1 2	/70 /70	

NC	DESIGNATION & SHORT DATA	TYPE	MANUFACTURER	WIDTH	DELIV	NPR
.437 OTHER RECOMMENDED OR STANDARD COMPONENTS/ACCESS.)						
N	NIM-CAMAC ADAPTOR (WITH 12V FROM 24V)	A NC 12	SCHLUMBERGER		/76	
C	RIBBON CABLE LAM GRADER HARNESS (XXX DENOTES LENGTH IN METERS)	S 4003/XXX	TEKDATA			(14)
	NIM/CAMAC ADAPTOR	NCA-1	GEC-ELLIOTT		/74	
	NIM ADAPTOR	9072	NUCL. ENTERPRISES		/74	
	NIM-CAMAC ADAPTOR	CAN	ROD	NA	/71	
	NIM/CAMAC ADAPTOR	ANC 10	SCHLUMBERGER		/72	
	CAMAC NIM ADAPTOR	CNA 2033	SEN	2	/71	
	LAM GRADER CABLE (20CM, WITH CONNECTORS) (40CM, WITH CONNECTORS)	LGC 20 LGC 40	GEC-ELLIOTT		/72 /72	
	LAM GRADER CABLE		JOERGER			
	52 WAY CANNON 20B52S HARNESSSES LAM GRADER CABLE, XXX= LENGTH IN METERS)	5009/S/52/XXX	TEKDATA		/73	
	LAM-GRADER CONNECTOR (52-PIN FIXED MEMBER, FO MEANS WITHOUT CONTACTS PIN FOR CONTACTS TYPE 031-9540-000	2 DB 52 P FO 2 DB 52 P FO	ITT CANNON		/70 /70	
	COAXIAL CONNECTOR (PANEL MOUNT. ND-549B)	22 QLA-01-0-2	HUBER+SUHNER		/75	
N	COAXIAL CONNECTOR (GRIMP ENTRY ND-549A)	11 QLA-01-2-8C	HUBER+SUHNER		/77	
N	COAXIAL CONNECTOR (SCREW ENTRY ND-549A) T&L ADAPTORS, TERMINATIONS AVAILABLE	11 QLA-01-2-11C	HUBER+SUHNER		/77	
	COAXIAL CONNECTOR (PANEL MOUNTING. CABLE CONNECTOR HAS TYPE F 00.250 & FS 00.250) T- & L-ADAPTORS, FREE DOUBLE SOCKET, AND ARE ALSO AVAILABLE	RA 00.250	LEMO		/70	(4)

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