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EB-02

CAMAC Extender Module

DSP Technology Incorporated, 48500 Kato Road, Fremont, CA 94538-7338

Phone: 415-657-7555; Telex: 283608

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Assembly Module Extender Board EB-02 Drawing No. 105910 Rev. A

EB-02 Manual Revision Record

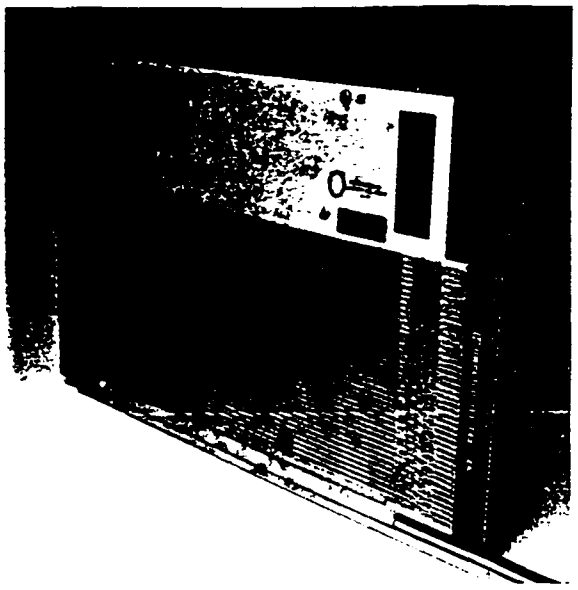
Warranty

MODEL EB-02

FIXED DATAWAY EXTENDER

FEATURES

- Labled Test Points for All Dataway Signals
- Positive Module Support Rail
- Rugged Front Mounted 86 Pin Connector



DESCRIPTION

The EB-02 fixed extender card brings the Dataway signals to an 86 pin card edge connector at the front of the crate. This allows modules to be tested outside the crate where access to the PC board is easier. The EB-02 features labeled test points for all Dataway signals at the front of the extender board, and positive guide rail support for test module.

APPLICATION

Testing, debugging, and repairing modules at the CAMAC Crate.

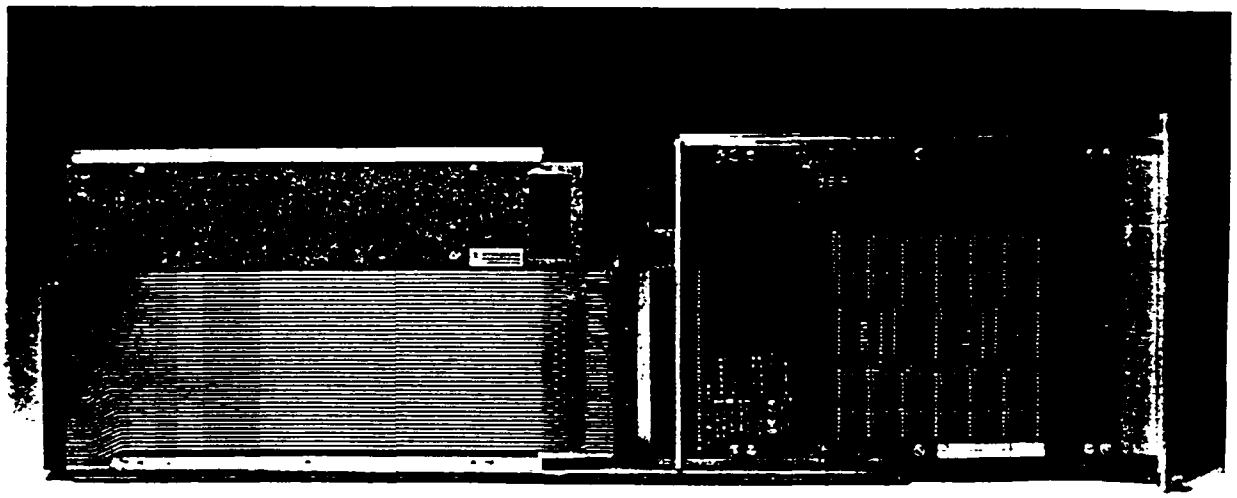
TECHNICAL SPECIFICATIONS

Type: Single width unit with extension arm for single width module

Weight: 8 oz.

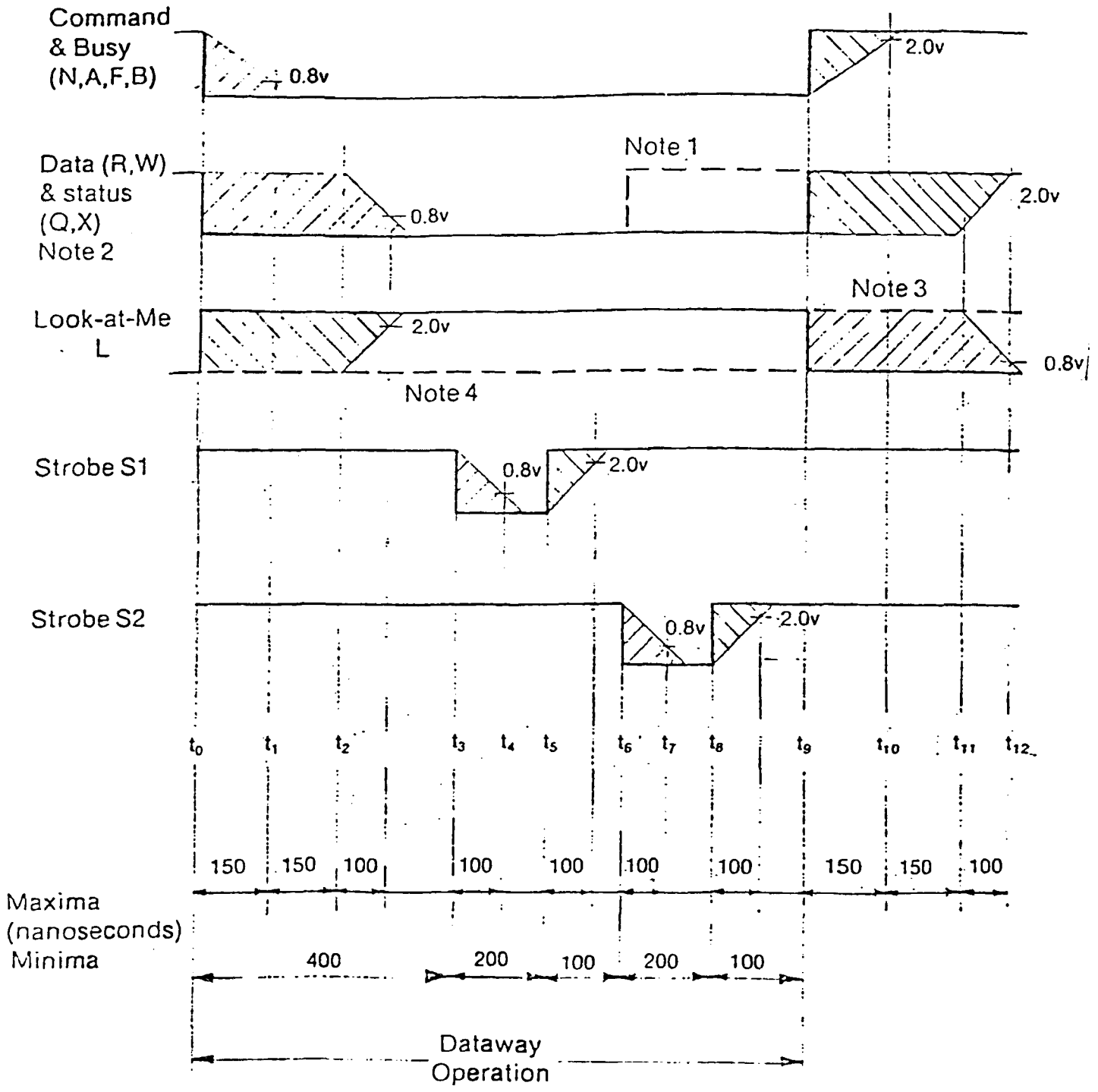
Connector: Front mounted 86 pin card edge connector

Labeled test points



Appendix

TIMING OF A DATAWAY COMMAND OPERATION



Note 1: Data & status may change in response to S2.
Note 2: During some operations Q may change at any time.
Note 3: LAM status may be reset during operation.
Note 4: L signal may be maintained during operation.

FUNCTION CODES:

R/W:	Code F( ):	Function:
R	0	Read group 1 register.
R	1	Read group 2 register.
R	2	Read and clear group 1 register.
R	3	Read compement of group 1 register.
R	4	Nonstandard.
R	5	Reserved.
R	6	Nonstandard.
R	7	Reserved.
	8	Test look-at-me (LAM).
	9	Clear group 1 register.
	10	Clear look-at-me (LAM.
	11	Clear group 2 register.
	12	Nonstandard.
	13	Reserved.
	14	Nonstandard.
	15	Reserved.
W	16	Overwrite group 1 register.
W	17	Overwrite group 2 register.
W	18	Selective set group 1 register.
W	19	Selective set group 2 register.
W	20	Nonstandard.
W	21	Selective clear group 1 register.
W	22	Nonstandard.
W	23	Selective clear group 2 register.
	24	Disable.
	25	Execute.
	26	Enable.
	27	Test status.
	28	Nonstandard.
	29	Reserved.
	30	Nonstandard.
	31	Reserved.

DATAWAY PIN ALLOCATION:

Contact Allocation at a Normal Station (Viewed from Front of Crate):

		Pin No.			
Free bus-line	P1	1	2	B	Busy
Free bus-line	P2	3	4	F16	Function
	P3	5	6	F8	Function
	P4	7	8	F4	Function
	P5	9	10	F2	Function
Command accepted	X	11	12	F1	Function
Inhibit	I	13	14	A8	Subaddress
Clear	C	15	16	A4	Subaddress
Station number	N	17	18	A2	Subaddress
Look-at-me	L	19	20	A1	Subaddress
Strobe 1	S1	21	22	Z	Initialize
Strobe 2	S2	23	24	Q	Response
MSB	W24	25	26	W23	
	W22	27	28	W21	
	W20	29	30	W19	
	W18	31	32	W17	
	W16	33	34	W15	
24 write	W14	35	36	W13	
Bus-lines	W12	37	38	W11	
	W10	39	40	W9	
	W8	41	42	W7	
	W6	43	44	W5	
	W4	45	46	W3	
	W2	47	48	W1	LSB
MSB	R24	49	50	R23	
	R22	51	52	R21	
	R20	53	54	R19	
	R18	55	56	R17	
	R16	57	58	R15	
24 read	R14	59	60	R13	
Bus-lines	R12	61	62	R11	
	R10	63	64	R9	
	R8	65	66	R7	
	R6	67	68	R5	
	R4	69	70	R3	
	R2	71	72	R1	LSB
-12 V dc	-12	73	74	-24	-24 V dc
+200 V dc	+HV	75	76	-6	-6 V dc
117 V ac live	ACL	77	78	ACN	117 V ac neutral
Reserved	Y1	79	80	E	Clean earth
+12 V dc	+12	81	82	+24	+24 V dc
Reserved	Y2	83	84	+6	+6 V dc
OV (power return)	0	85	86	0	OV (power return)

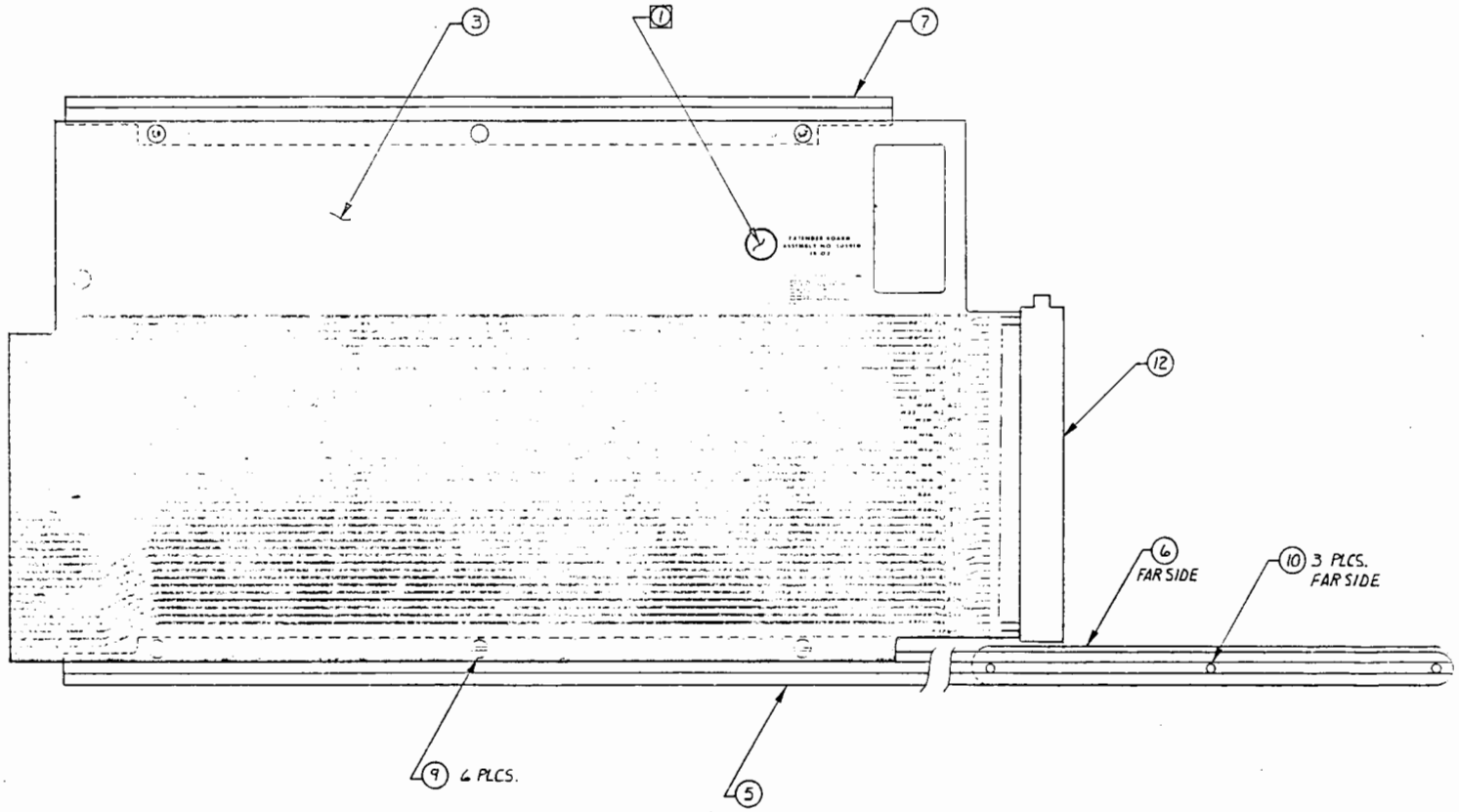
DATAWAY PIN ALLOCATION:

Contact Allocation at the Control Station (Viewed from Front of Crate):

		Pin No.			
Patch contact	P1	1	2	B	Busy
Patch contact	P2	3	4	F16	Function
Patch contact	P3	5	6	F8	Function
Patch contact	P4	7	8	F4	Function
Patch contact	P5	9	10	F2	Function
Command accepted	X	11	12	F1	Function
Inhibit	I	13	14	A8	Subaddress
Clear	C	15	16	A4	Subaddress
Patch contact	P6	17	18	A2	Subaddress
Patch contact	P7	19	20	A1	Subaddress
Strobe 1	S1	21	22	Z	Initialize
Strobe 2	S2	23	24	Q	Response
	L24	25	26	N24	
	L23	27	28	N23	
	L22	29	30	N22	
	L21	31	32	N21	
	L20	33	34	N20	
	L19	35	36	N19	
	L18	37	38	N18	
	L17	39	40	N17	
	L16	41	42	N16	
	L15	43	44	N15	
24 individual	L14	45	46	N14	24 individual
Look-at-me lines	L13	47	48	N13	Station number lines
L1 from Station 1,	L12	49	50	N12	N1 to Station 1,
etc.	L11	51	52	N11	etc.
	L10	53	54	N10	
	L9	55	56	N9	
	L8	57	58	N8	
	L7	59	60	N7	
	L6	61	62	N6	
	L5	63	64	N5	
	L4	65	66	N4	
	L3	67	68	N3	
	L2	69	70	N2	
	L1	71	72	N1	
-12 V dc	-12	73	74	-24	-24 V dc
+200 V dc	+200	75	76	-6	-6 V dc
117 V ac live	ACL	77	78	ACN	117 V ac neutral
Reserved	Y1	79	80	E	Clean earth
+12 V dc	+12	81	82	+24	+24 V dc
Reserved	Y2	83	84	+6	+6 V dc
0V (power return)	0	85	86	0	0V (power return)

NOTES: UNLESS OTHERWISE SPECIFIED

[1] MARK BOARD WITH REVISION LEVEL TO WHICH ASSEMBLED, IN CIRCLE PROVIDED.



MATERIAL: SEE SIZE 'A' PL 105910	FINISH:	TITLE: ASSEMBLY, MODULE, EXTENDER BOARD. EB-02	DSP Technology				
HEAT TREAT:	DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED: DECIMAL / ANG.						
WEIGHT:	XX± — XXX± — ± —	DESIGN: J MORELAND	DATE: 7-17-78	JOB NO:			
MISC:	SCALE: FULL NO REQ'D 1	DETAIL: L.M.	DATE: 7-17-78	SIZE: C	DRAWING NUMBER: 105910	ISSUE: A	
	NEXT ASSY:	CHECK:	DATE: 7-20-78				
		APPRO:	DATE: 7-20-78				

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	PRODUCTION RELEASE	7-17-78	

DSP Technology Inc.

S I N G L E L E V E L B I L L O F M A T E R I A L R E P O R T

Assembly: EB-02 (FIXED DATAWAY EXTENDER)
Revision:
As of: 09/30/89

Date: 10/05/89
Page: 1

	Component	Description	Qty Per	As of	Until	Reference
1.	071003	CONN: 86 PIN	1.00	05/20/86	12/31/99	
2.	105911	PCB: EB-02	1.00	05/20/86	12/31/99	PWB
3.	105912	RAIL: EXTENDER	1.00	05/20/86	12/31/99	
4.	105913	RAIL: EB-02	1.00	05/20/86	12/31/99	
5.	106278	RAIL: GUIDE, MDL, 11 HOLE	1.00	05/20/86	12/31/99	
6.	120425	HDW: SCREW 4-40 X 5/16 PHIL FLAT SS	3.00	05/20/86	12/31/99	

Component	Description	Qty Per	As of	Until	Reference

Assembly: EB-02 (FIXED DATAWAY EXTENDER)

EB-02 MANUAL REVISION RECORD:

Revision:	Date Issued:	Description:	Reference:
A	11/10/81	New Manual	None

dsp Technology Inc.

PRODUCT WARRANTY

(Excludes Software)

DSP TECHNOLOGY ("DSP") warrants its products to be free from defects in material and workmanship and to meet DSP's performance specifications. The warranty period is one year from the date of shipment to the buyer. The warranty is limited by the paragraphs below.

RETURN TO FACTORY

If a buyer discovers a defect in a DSP product covered by this agreement, buyer's exclusive remedy is to ship the product back to DSP's Fremont factory, where DSP will, at its option, either repair or replace the product. This remedy applies if DSP receives the returned product on or before the tenth day after the expiration of the warranty period and the buyer notifies DSP of the defect before returning the product.

COST TO BUYER OF REPAIRS OR REPLACEMENT

Buyer must prepay freight charges to DSP. DSP will pay standard return freight to buyer. Buyer will be charged for premium freight if that method of transport is requested by buyer. There is no other charge for repair or replacement during the warranty period.

TRANSFERRABLE WARRANTIES

In addition to the foregoing warranty, DSP also provides the buyer the transferrable warranty, if any, provided to DSP by the manufacturers of other products such as terminals and disk systems supplied by SEC as part of a total system.

LIMITATION OF WARRANTY AND LIABILITY

The foregoing constitutes DSP's entire warranty, expressed, implied, and/or statutory (except as to title), and to any other party for any breach of such warranty and for damages, whether direct, special, incidental, or consequential. Other than as expressly provided in this document, no warranties expressed or implied, including any warranty of merchantability or fitness for a particular purpose are made. No employee, representative, or agent or seller has any authority expressed or implied to alter or supplement the terms of this warranty.

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