

digital

PT08-B

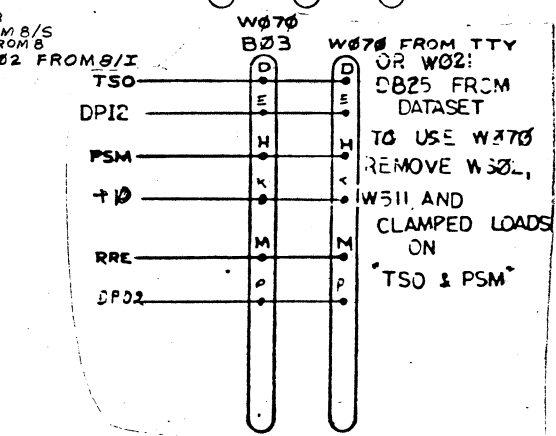
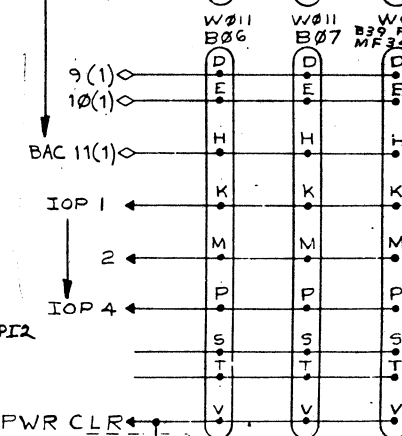
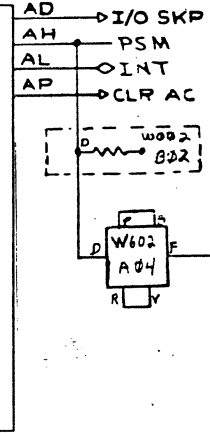
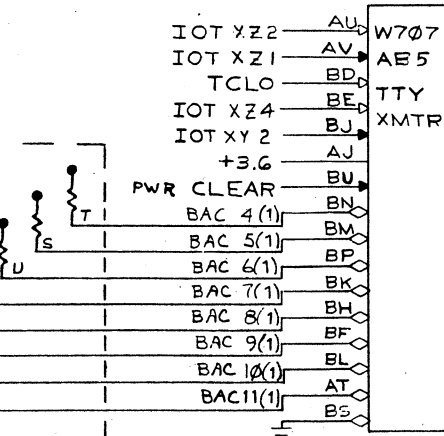
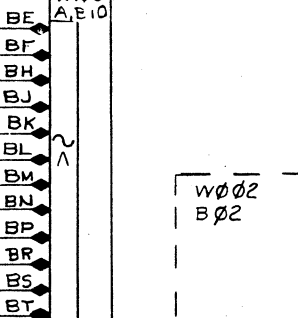
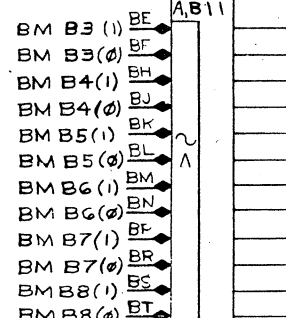
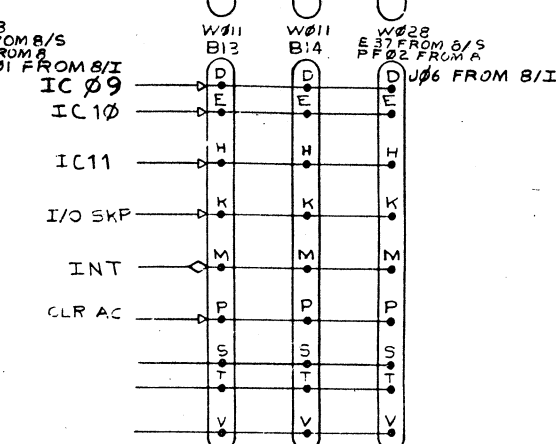
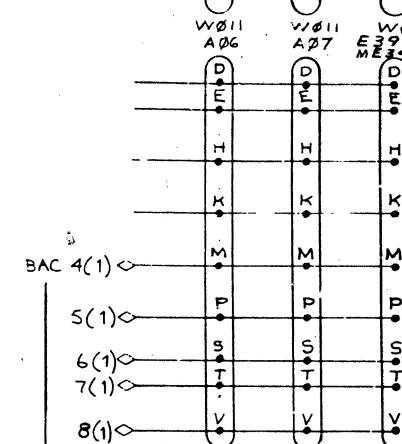
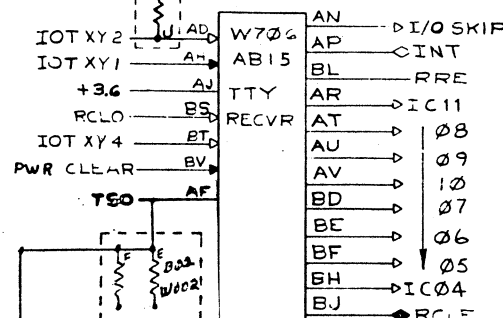
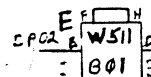
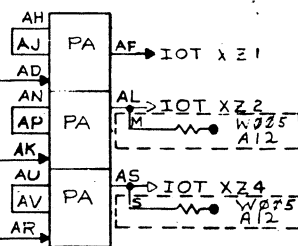
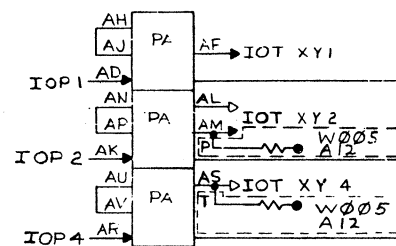
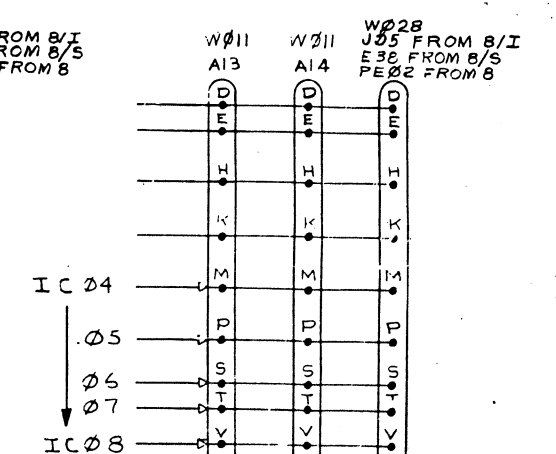
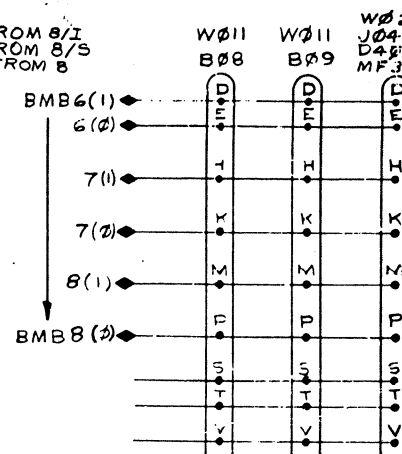
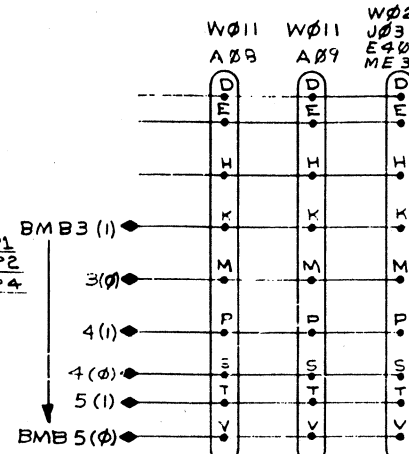
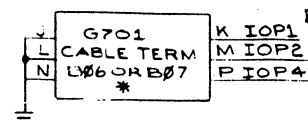
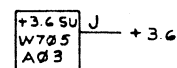
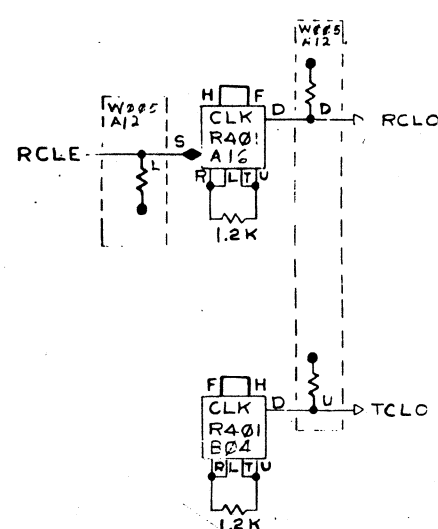
Engineering Drawings

Digital Equipment Corporation

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NOTE 1. ALL CABLE PINS C, F, J, L, N, R, U
ARE GROUNDED

** NOTE 3
 DEVICE SELECTOR CODE CAN BE
 SELECTED BY THE PURCHASER FROM
 THE FOLLOWING POSSIBILITIES

* NOTE 2

THIS MODULE CAN HAVE EITHER LOCATION
DEPENDING ON WHICH OF THESE TWO SLOTS
THE I/O CABLE HAS BEEN INSERTED.
ON PDP-8 OR S/S COMPUTERS WITH OPTIONS
OTHER THAN THE PT08, THE G701 MUST BE
INSERTED IN THE I/O DEVICE AT THE END OF
THE I/O CABLES IN THE CABLE SLOT THAT PROVIDES
I/O BUS EXTENSION FOR IOP₅ 1,2,4

NOTE 4:

TO ALLOW IOP₄ TO CLEAR THE KEYBOARD FLAG,
REFER TO ECO # PT08A - 00001

	RECVR.	XMTR.	LINE
	XY	XZ	
	40	41	1
PDP-8	42	43	2
PDP-8/s	44	45	3
	46	47	4
	11	12	5
PDP 8/s	03	04	1

ONLY

REVISIONS		
CHK	CHANGE NO.	REV.
70	ECO # 3 1-3-67	A
	ECO # 4 1-10-67	B
71	ECO # 15 4-26-67	C
	ECO # 164 8-3-67	D
	ECO # 165 8-10-67	E
	ECO # 166 8-10-67	F
	ECO # 167 8-10-67	G
	ECO # 168 8-10-67	H
	ECO # 169 8-10-67	I
	ECO # 170 8-10-67	J
	ECO # 171 8-10-67	K
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	ECO # 534 8-10-67	NJ
	ECO # 5	

		QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DRN.	DATE	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE		
DIMENSION IN INCHES		BY	DATE		
TOLERANCES		ENG	DATE		
DECIMALS FRACTIONS ANGLES		PROJ. ENG	DATE		
± .005 ± 1/64 ± 90°		PROO	DATE	TITLE TELETYPE CONT PTO8 LOGIC	
FINAL SURFACE QUALITY					
✓ REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL					
FINISH					
		FIRST USED ON		SIZE CODE	
		D-UA-PT08-A-0		NUMBER	
		SCALE		PT08-A-1	
		SHEET		REV.	
		I OF I		E	
		DIST.			

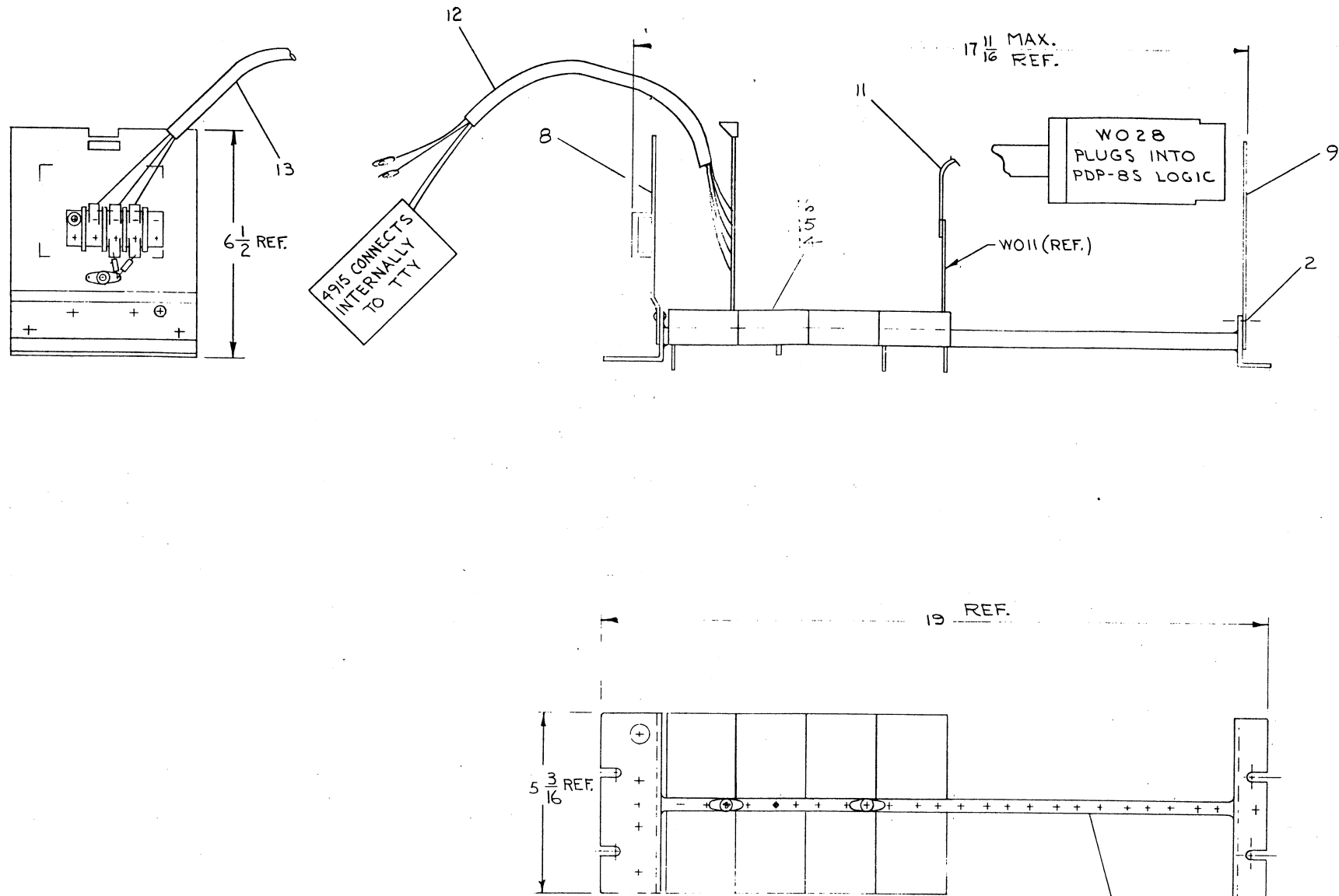
PASTE-ONS SHOW "F" OPTION

[illegible]

UNLESS OTHERWISE SPECIFIED		DRN. <i>W. L. Leland</i>	DATE <i>11/11/66</i>	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		CHKD. <i>Thompson</i>	DATE <i>12/2/66</i>		
TOLERANCES		EMS. <i>Don Rickerts</i>	DATE <i>12/5/66</i>	TITLE MODULE LOCATION TYPE PT08	
DECIMALS FRACTIONS ANGLES = .005 = 1/64 = 0°30'		PROJ. ENG. <i>Don Rickerts</i>	DATE <i>12/5/66</i>		
FINAL SURFACE QUALITY		PROD. <i>Don Rickerts</i>	DATE <i>12/5/66</i>		
REMOVE BURRS AND BREAK SHARP CORNERS					
MATERIAL _ / _ / _		FIRST USED ON D-UA-PT08-A-O		SIZE CODE DMU	
FINISH _ / _		SCALE SHEET 1 OF 1		NUMBER PT08-A-2	
				REV. B	

PARTS LIST			DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
		1	W705 +3,6 Volt Power Supply		A-15	4/24/66	AR	
		2	R401 CLOCK		B-42	12-28-66	ME	
		1	W070 TELETYPE CONNECTOR					
		1	W005 Clamped Loads					
		1	W706 TELETYPE RECEIVER					
		2	W103 DEVICE SELECTOR					
		6	W011 SIGNAL CABLE CONNECTOR					
		1	W707 TELETYPE TRANSMITTER					
		6	W028 SIGNAL CABLE CONNECTOR					
		1	W002 CLAMPED LOADS					
		1	G7Ø1 CABLE TERMINATOR					
MADE BY K. Gulick		DATE 11/11/66	TITLE MODULE LOCATION TYPE PT08		SIZE A	CODE PL	NUMBER PT08-A-2	REV. B
CHECKED P. Daigneault		DATE 11/23/66	FOR PT08-A		ASSY. NO. D-MU-PT08-A-2		SHEET 1 OF 1	
ENG. Alan Ricketts		DATE 12-5-66						

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REVISIONS		REV.
CHK	CHANGE NO.	
AK	ECO # 3371	A
DELETED # 34, 5, 6, 7, 10		
CHG # 8, 9, DELETED NOTES		
R. P. Bennett 3/29/68		
1/1 1/1 1/1 1/1 1/1		

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DRN	DATE
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE
DIMENSION IN INCHES		ENG	DATE
TOLERANCES		PROJ. ENG.	DATE
DECIMALS FRACTIONS ANGLES		PROD.	DATE
± .005 ± 1/64 ± 0°30'		DATE	DATE
FINAL SURFACE QUALITY		DATE	DATE
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	DATE
MATERIAL		FIRST USED ON	
FINISH		E-VA-BSCAB-0-0	
SCALE 1/2		SHEET 1 OF 1	
TITLE		TELE TYPE CONTROL	
PT08-B		NUMBER	
DUA/PT08-B-0		REV.	
A		A	

PARTS LIST		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
1	A-PL-7005305-0-0	1	PT08-B WIRED ASSY	7005305	A-3371	3/21/68	JP	
2		8	POP RIVER 1/8 DIAx19/64 LG. ^{U.S.M.C.} #AD43AB5	90-06509	CHG #8&9 DELETED #3,4,5, 6,7,&10			
3	SS-100153-1	1	1943 MTC PANEL LABEL (WHITE BACKGROUND)					
4		1	TERM BLOCK #602-3/4ST3 KULKA					
5		2	CAPACITOR 6.8 MFD 35V SPRAGUE					
6		1	TERM. #2116-06-00 SHAKEPROOF					
7		1	EYELET 1090 1/8 O.D. X 3/16 LG STIMPSON					
8	C-IA-5402527-0-0	1	LEFT END PANEL ASSY	5402527				
9	C-MD-5302486-0-0	1	RIGHT END PANEL	5302486-0-0				
10		4	EYELET A-1152, .192 OD X .575 LG. STIMPSON					
11	C-IA-7405600-2-0	6	CONNECTOR CABLE 8S-PT08					
12	D-AD-7005288-1-0		CABLE 4915 TO W070					
13	C-AD-705289-2-0		POWER CORD (PT08-B TO PDP-8S)					
14	SEE MDL		UTILIZATION MODULE LIST					
15	SEE MDL		UTILIZATION MODULE LIST					
16	SEE MDL		WIRING LIST					

MADE BY D. Reilly	DATE 11/10/66	TITLE TELETYPE CONTROL PT08-B	SIZE A	CODE PL	NUMBER PT08-B-0	REV. A
CHECKED D. Healy	DATE 11/28/66	FOR	ASSY. NO. D-UA-PT08-B-0		SHEET 1 OF 1	
ENG. <i>D. Novala</i>	DATE 12/6/66					

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 4/4/68

TITLE PT08

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGED SHEET 3	261	—	4-22-68	D. O'Connor	4/24/68

ENG	Norman Wright	APPD	N. Wright 4/4/68	SIZE	A	CODE	SP	NUMBER	PT08-A-4	REV	A
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DEC FORM NO.
DRA 107

SHEET 1 OF 4

ENGINEERING SPECIFICATION

000001

CONTINUATION SHEET

TITLE PT08

0.0 OVERALL DESCRIPTION

The PT08 is a serial to parallel-parallel to serial converter designed to work between a parallel I/O device and a serial unit such as a Teletype or an asynchronous modem.

1.0 SPECIFICATIONS

The PT08 is offered in several configurations as outlined below. Operation is identical within the unit regardless of the configuration specified.

1.1 Options.

1.1.1 PT08A

This option is used on the PDP-8/S only, and is a single channel Teletype interface mounted in the base of the Teletype unit.

1.1.2 PT08B

Single channel Teletype control, rack mounted.

1.1.3 PT08C

Dual Channel Teletype Control, rack mounted

1.1.4 PT08F

The PT08F is an option that can be installed on a PT08B or PT08C to adapt the input/output lines of the unit for operation with a modem. Two level conversion modules are added (per channel) that convert DEC levels of 0V and -3V to voltages conforming to EIA Standard RS-232B.

DEC FORM NO
DRA 108

SHEET 2 OF 4

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE PT08

1.1.5 PT08FX

The PT08FX is an option that can be supplied with the F option that will adapt the unit to crystal clock control.

1.2 Mechanical Packaging1.2.1 Dimensions

All PT08 configurations, with exception of the PT08A, are contained in a Standard 1943 mounting panel.

Width	19.0 inches
Height	5.187 inches
Depth	6.75 inches
Finish	Chromicolt
Power Connections	AMP EASTON
Panel Aid wiring used	throughout.

1.2.2 Mounting Requirements

Any standard DEC cabinet or 19 inch mounting panel will accomodate the unit (except PT08A).

1.3 Environmental Specifications1.3.1 Operating temp. range -0°C to 55°C 1.3.2 Noise immunity ≈ 1 Volt.1.4 Power Requirements

Power must be supplied to the unit as follows:

<u>+10V</u>	<u>-15V</u>
1.1 AMP	105 MA
(1.5 AMP	150 MA) PT08FX only.

1.5 Margins

The unit shall operate satisfactory over the following temp. range:

+10V	_____	+2V
-15V	_____	+3V

SIZE
ACODE
SPNUMBER
PT08-A-4REV
A

SHEET 3 OF 4

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE PT08

2.0 CABLING2.1 I/O Cables

Six standard I/O cables are required to connect the PT08 to the PDP bus.

2.2 Teletype Cable

On units equipped for Teletype Operation, a 12 ft. cable terminated with a W070 connector is necessary.

2.3 Data Phone Cable

On units equipped for modem operation, a 25 ft. cable is required. One end terminated with a W021 connector, the other end terminated with a hooded data set connector (DB-19604-432).

3.0 Tests and/or Diagnostics3.1 Requirements

Maindec 828
Standard PDP-8
Off-line Teletype
Six (6) I/O Cables
One Teletype Cable (12 ft.)

3.2 Procedure

Perform tests as outlined in Maindec 828

SIZE
ACODE
SPNUMBER
PT08-A-4REV
A

SHEET 4 OF 4

ACCESSORY LIST

CHECKED *A. Dell'Aglio*
DATE *3-17-70*

PROD	3/17/70
DATE	B. Vail

SECTION

ISSUED SECT.	
--------------	--

D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
PM	PAPER TAPE READ-IN-MODE

[illegible]

DWG NO. / PART NO.

DESCRIPTION

Prints

Hook Up Wire

Hardware Bag

ASSY. NO.	
-----------	--

SHEET	OF
-------	----

DIST.

NUMBER

PT08-B-1

REV.	ECO NO
------	--------

103 cond.

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MASTER DRAWING LIST

[illegible]

DEC FORM NO.
DRA 103

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DEC FORM NO.
LFA 103

PARTS LIST			DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
1	A-PL-7005305-0-0	1	PT08-B WIRED ASSY	7005305	A-53	4-9-68	AWR	
2		8	POP RIVET 1/8 DIAx19/64 LG. #AD43ABS ^{U.S.M.F.}	9006460	B-3475	4/23/68	FBP	
3	SS-100153-1	1	1943 MTG PANEL LABEL (WHITE BACKGROUND)		ADDED DEC STOCK NO'S			
4		1	TERM BLOCK #602-3/4ST3 KULKA	12-02491				
5		2	CAPACITOR 6.8 MFD 35V SPRAGUE	10-05306				
6		1	TERM. #2116-06-00 SHAKEPROOF	9006769				
7		1	EYELET 1090 1/8 O.D. x 3/16 LG STIMPSON	9006733				
8	C-MD-5302485-0-0	1	LEFT END PANEL	5302485				
9	C-MD-5302486-0-0	1	RIGHT END PANEL	5302486				
10		4	EYELET A-1152, .192 OD x .575 LG. STIMPSON	9006736				
11	C-IA-7405600-2-0	6	CONNECTOR CABLE 8S-PT08	74-5600-2				
12	C-IA-7005717-0-0	1	DATASET CABLE	7005717				
13	C-AD-705289-2-0		POWER CORD (PT08-B TO PDP-8S)	7005289-2				
14	SEE MDL		UTILIZATION MODULE LIST					
15	SEE MDL		UTILIZATION MODULE LIST					
16	SEE MDL		WIRING LIST					

MADE BY <i>Alan Ricketts</i>	DATE <i>12-6-66</i>	TITLE DATASET CONTROL PT08-	SIZE A	CODE PL	NUMBER 7605291-0-1	REV. B
CHECKED <i>Alan Ricketts</i>	DATE <i>12-6-66</i>	FOR	ASSY. NO. D-UA-PT08-B-0		SHEET 1 OF 1	
ENG <i>Alan Ricketts</i>	DATE <i>12/6/66</i>	6				

PARTS LIST		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
		1	W705 +3,6 Volt Power Supply		A-60	4-22-68	AWR	
		2	R4Q1 CLOCK					
		1	W005 Clamped Loads					
		1	W706 TELETYPE RECEIVER					
		2	W103 DEVICE SELECTOR					
		1	W707 TELETYPE TRANSMITTER					
		1	W002 CLAMPED LOADS					
		1	W602 EIA CONVERTER					
		1	W511 NEG. INPUT CONVERTER					
		1	G-701 CABLE TERMINATOR					

MADE BY <i>Alan Ricketts</i>	DATE 12-5-66	TITLE MODULE LOCATION TYPE PT08	SIZE A	CODE PL	NUMBER 7605291-0-2	REV. A
CHECKED <i>Alan Ricketts</i>	DATE 12-5-66	FOR PT08- DATASET CONTROL	ASSY. NO. D-4A-PT08-B-0		SHEET 1 OF 1	
ENG. <i>Alan Ricketts</i>	DATE 12-5-66					

DEC FORM NO.
DRA 109

[illegible][illegible]

REV.	CHANGE NO.	CHK	FORM NO. 105	8	7	5	4	3	2	1
------	------------	-----	--------------	---	---	---	---	---	---	---

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES = .000 ± .1/64 = 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRN. <i>C. Ebb</i> DATE <i>12/5/66</i> CHKP. <i>Ricketts</i> DATE <i>12/5/66</i> ENGR. <i>John Ricketts</i> DATE <i>12/5/66</i> PROJ. ENG. <i>John Ricketts</i> DATE <i>12/5/66</i> PROD. <i>John Ricketts</i> DATE <i>12/5/66</i>
MATERIAL — / — / —	FIRST USED ON D-UA-PT08-A-0
FINISH — / — / —	SCALE SHEET 1 OF 1

digital EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

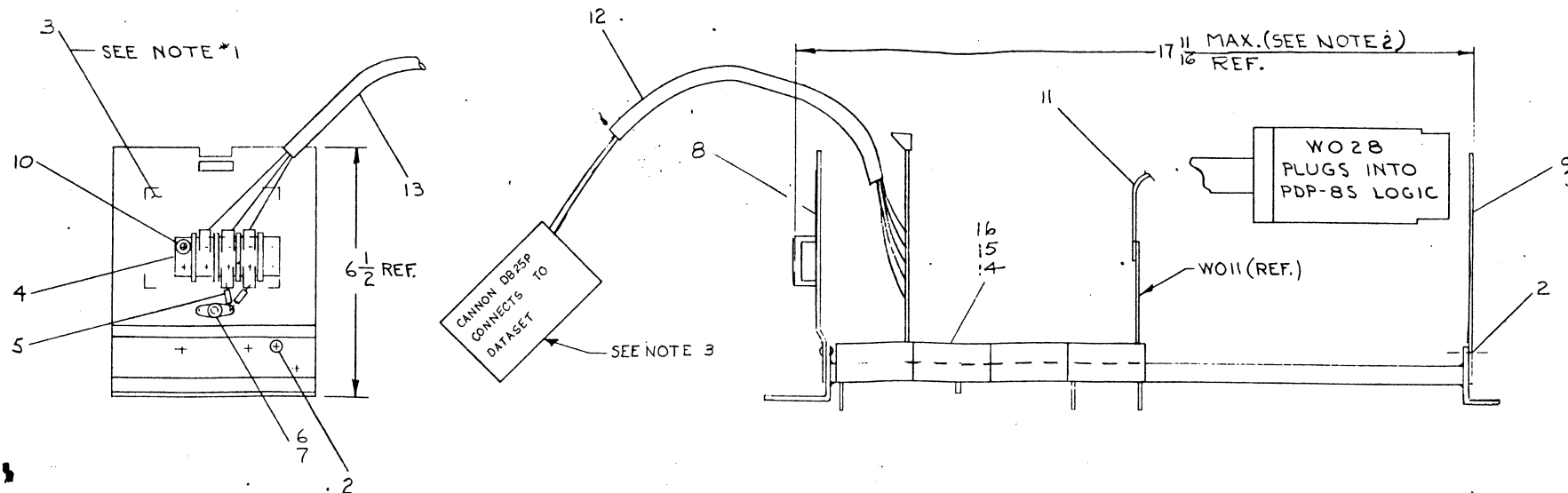
TITLE

MODULE LOCATION TYPE PT08

SIZE CODE
DMU

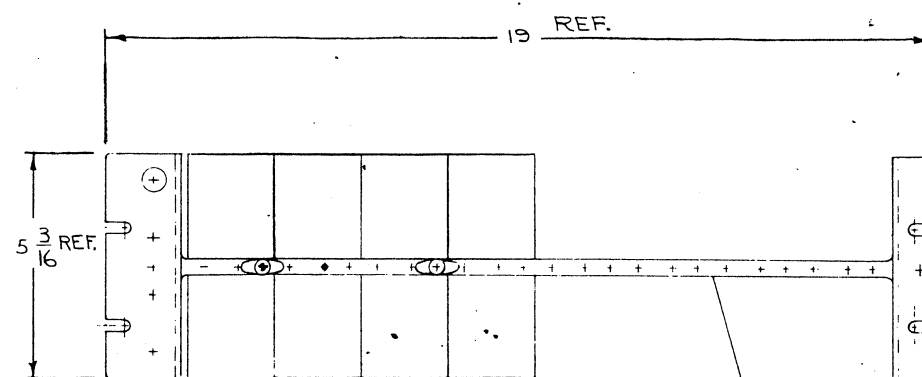
NUMBER
7605291-0-3

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NOTES:

1. DEC. STICKER TO BE APPLIED TO OUTSIDE SURFACE OF LEFT END PANEL AS SHOWN
2. 17 11/16 REF DIM TO BE USED BY QUALITY CONTROL ONLY
3. TO INTERFACE INKTRONIC USE CANNON DD255/CINCH DBM255 REFERENCE TO D-B5-7605291-O-8 REV. 1.



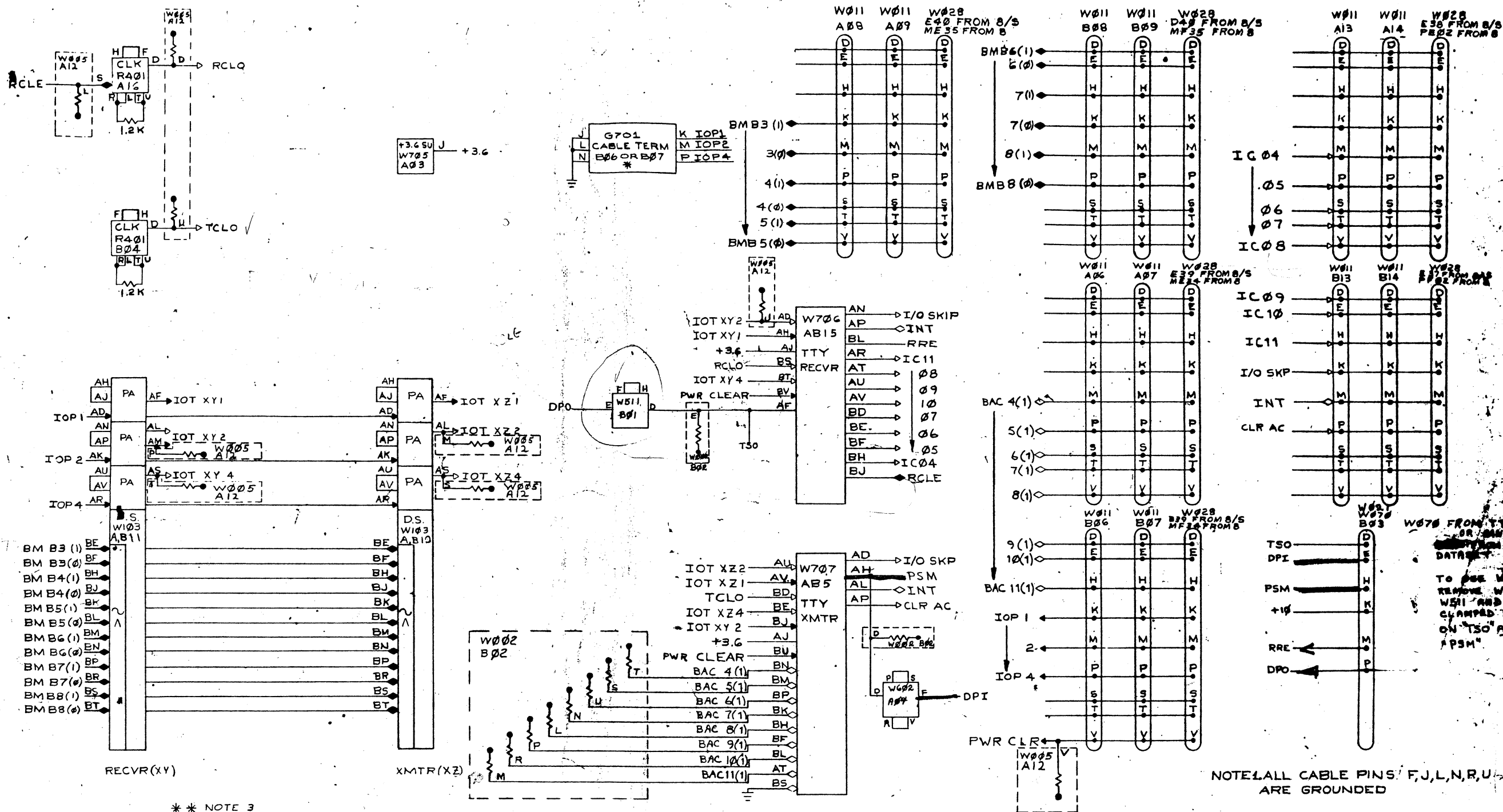
REV.	CHANGE NO.	DATE	BY	CHK
1	7605291-00001	1/1/66	D. PETERSON	
2		1/1/66		
3		1/1/66		
4		1/1/66		
5		1/1/66		
6		1/1/66		
7		1/1/66		
8		1/1/66		

DEC FORM NO. 100

UNLESS OTHERWISE SPECIFIED		DATE	
UNLESS OTHERWISE SPECIFIED		DATE	
DIMENSION IN INCHES		DATE	
TOLERANCES		DATE	
DECIMALS	FRACTIONS	ANGLES	DATE
± .005	± 1/64	± 0°30'	DATE
FINAL SURFACE QUALITY		DATE	
NOE BURRS AND BREAK SHARP CORNERS		DATE	
MATERIAL		DATE	
FINISH		DATE	
SCALE 1/2		DATE	
SHEET 1 OF 1		DATE	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE DATASET CONTROL PT08-			
SIZE/CODE		NUMBER	REV.
DUA		7605291-0-4	A

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** NOTE 3

DEVICE SELECTOR CODE CAN BE SELECTED BY THE PURCHASER FROM THE FOLLOWING POSSIBILITIES

	RECVR	XMTR	LINE
PDP-8	40	41	1
PDP-8/S	42	43	2
	44	45	3
	46	47	4
	11	12	5
PDP-8/S ONLY	03	04	1

* NOTE 2

THIS MODULE CAN HAVE EITHER LOCATION DEPENDING ON WHICH OF THESE TWO SLOTS THE I/O CABLE HAS BEEN INSERTED. ON PDP-8 OR 8/S COMPUTERS WITH OPTIONS OTHER THAN THE PTOB, THE G701 MUST BE INSERTED IN THE I/O DEVICE AT THE END OF THE I/O CABLE IN THE CABLE SLOT THAT PROVIDES I/O BUS EXTENSION FOR IOP'S 1, 2, 4

NOTE: ALL CABLE PINS: F, J, L, N, R, U ARE GROUNDED

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED			
UNLESS OTHERWISE SPECIFIED			
TOLERANCES			
DECIMALS	FRACTIONS	ANGLES	
± .005	± 1/64	± 0°30'	
FINISH			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
FINISH			
SCALE			
SHEET			
OF 1			
DATE			
BY			
CHECKED			
DATE			
TITLE			
DATASET OR TELETYPE CONT.			
PT08 LOGIC			
NUMBER			
DJS 7605291-0-5			

[illegible]

ENGINEERING SPECIFICATION

0109-6788(199609)18:03;1-P

CONTINUATION SHEET

TITLE PTØ8

Ø.Ø

OVERALL DESCRIPTION

The PT08 is a serial to parallel-parallel to serial converter designed to work between a parallel I/O device and a serial unit such as a Teletype or an asynchronous modem.

1.0

SPECIFICATIONS.

The PT08 is offered in several configurations as outlined below. Operation is identical within the unit regardless of the configuration specified.

1.1

Options.

1.1.1

PT08A

This option is used on the PDP-8/S only, and is a single channel Teletype interface mounted in the base of the Teletype unit.

1.1.2

PT08B

Single channel Teletype control, rack mounted.

1.1.3

PT08C

Dual Channel Teletype Control, rack mounted

1.1.4

PTØ8F

The PT08F is an option that can be installed on a PT08B or PT08C to adapt the input/output lines of the unit for operation with a modem. Two level conversion modules are added (per channel) that convert DEC levels of 0V and -3V to voltages conforming to EIA Standard RS-232B.

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE PT08			
1.1.5 PT08FX The PT08FX is an option that can be supplied with the F option that will adapt the unit to crystal clock control.			
1.2 Mechanical Packaging			
1.2.1 Dimensions All PT08 configurations, with exception of the PT08A, are contained in a Standard 1943 mounting panel. Width19.0 inches Height5.187 inches Depth6.75 inches FinishChromicolt Power ConnectionsAMP EASTON Panel Aid wiring used through.			
1.2.2 Mounting Requirements Any standard DEC cabinet or 19 inch mounting panel will accomodate the unit (except PT08A).			
1.3 Environmental Specifications			
1.3.1 Operating temp. range -0°C to .55°C			
1.3.2 Noise immunity ≈ 1 Volt.			
1.4 Power Requirements Power must be supplied to the unit as follows: +10V-15V 1.1 AMP105 MA (1.5 AMP150 MA) PT08FX only.			
1.5 Margins The unit shall operate satisfactory over the following temp. range: +10V-15V+2V+3V			
		SIZE A	CODE SP
		NUMBER PT08-A-4	REV A

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE PT08			
2.0 CABLING			
2.1 I/O Cables Six standard I/O cables are required to connect the PT08 to the PDP bus.			
2.2 Teletype Cable On units equipped for Teletype Operation, a 12 ft. cable terminated with a W070 connector is necessary.			
2.3 Data Phone Cable On units equipped for modem operation, a 25 ft. cable is required. One end terminated with a W021 connector, the other end terminated with a hooded data set connector (DB-19604-432).			
3.0 Tests and/or Diagnostics			
3.1 Requirements Maindec 828 Standard PDP-8 Off-line Teletype Six (6) I/O Cables One Teletype Cable (12 ft.)			
3.2 Procedure Perform tests as outlined in Maindec 828			
		SIZE A	CODE SP
		NUMBER PT08-A-4	REV A

MASTER DRAWING LIST

DEC FORM NO.
DRA 103

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DEC FORM NO.

PARTS LIST			DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
1	A-PL-7005305-0-0	1	PT08-B WIRED ASSY	7005305	A-53	1-9-68	Quirk	
2		8	POP RIVET 1/8 DIAx19/64 LG. ^{U.S.M.F.} #AD43AB5	9006460	B-3475	4/23/68	FC	
3	SS-100153-1	1	1943 MTG PANEL LABEL (WHITE BACKGROUND)		ADDED DEC STOCK NO'S			
4		1	TERM BLOCK #602-3/4ST3 KULKA	12-02491				
5		2	CAPACITOR 6.8 MFD 35V SPRAGUE	10-05306				
6		1	TERM. #2116-06-00 SHAKEPROOF	90 769				
7		1	EYELET 1090 1/8 O.D. x 3/16 LG STIMPSON	9006733				
8	C-MD-5302485-0-0	1	LEFT END PANEL	5302485				
9	C-MD-5302486-0-0	1	RIGHT END PANEL	5302486				
10		4	EYELET A-1152, .192 OD x .575 LG. STIMPSON	9006736				
11	C-IA-7405600-2-0	6	CONNECTOR CABLE 8S-PT08	74-5600-2				
12	C-IA-7005717-0-0	1	DATASET CABLE	7005717				
13	C-AD-705289-2-0		POWER CORD (PT08-B TO PDP-8S)	7005289-2				
14	SEE MDL		UTILIZATION MODULE LIST					
15	SEE MDL		UTILIZATION MODULE LIST					
16	SEE MDL		WIRING LIST					

MADE BY <i>Alan Ricketts</i>	DATE <i>12-6-66</i>	TITLE DATASET CONTROL PT08-	SIZE A	CODE PL	NUMBER 7605291-0-1	REV. B
CHECKED <i>Alan Ricketts</i>	DATE <i>12-6-66</i>	FOR	ASSY. NO. D-UA-PT08-B-0		SHEET 1 OF 1	
ENG <i>Alan Ricketts</i>	DATE <i>12/6/66</i>	6				

D

B

AA

7605291-007

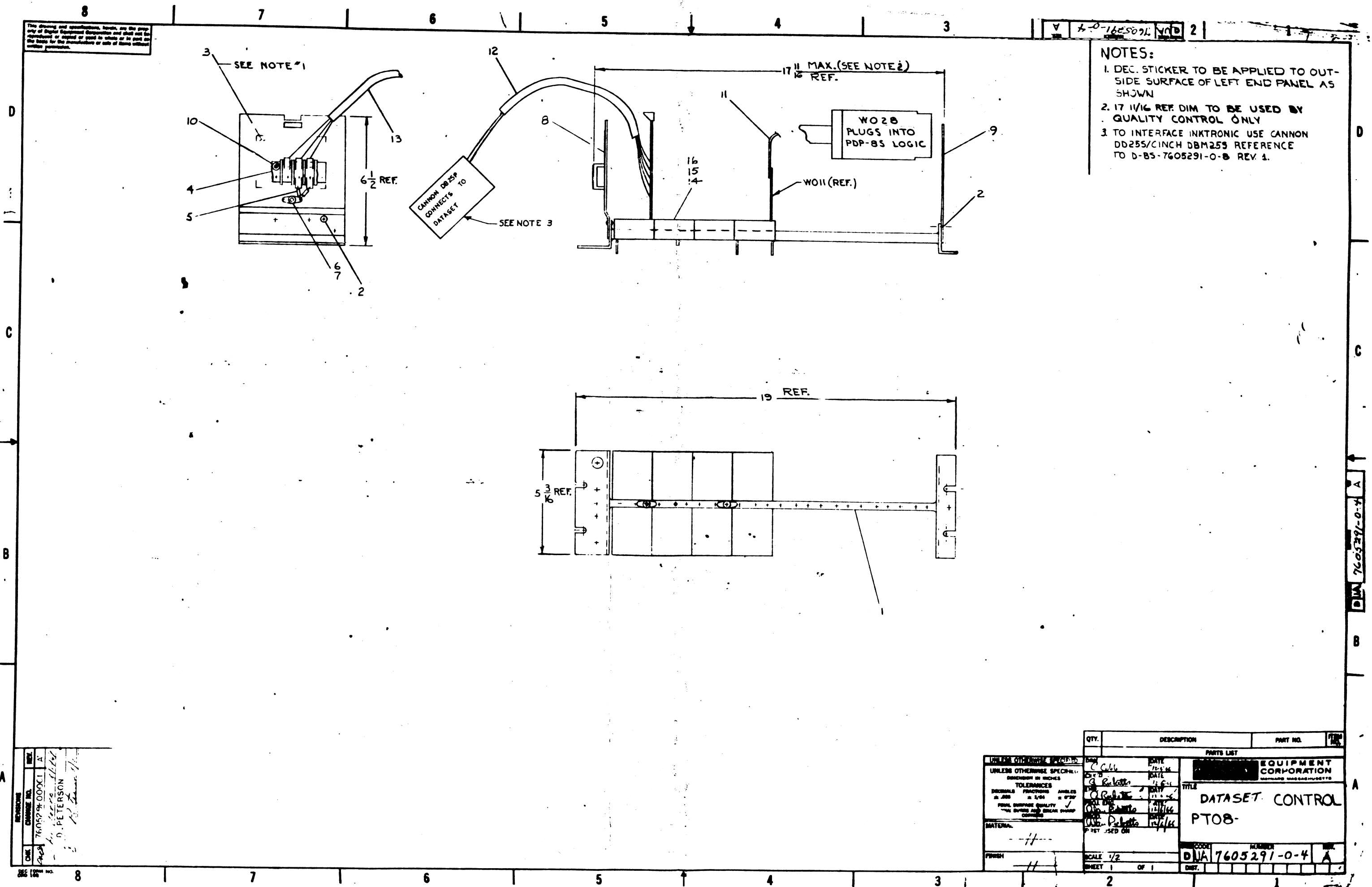
8

A

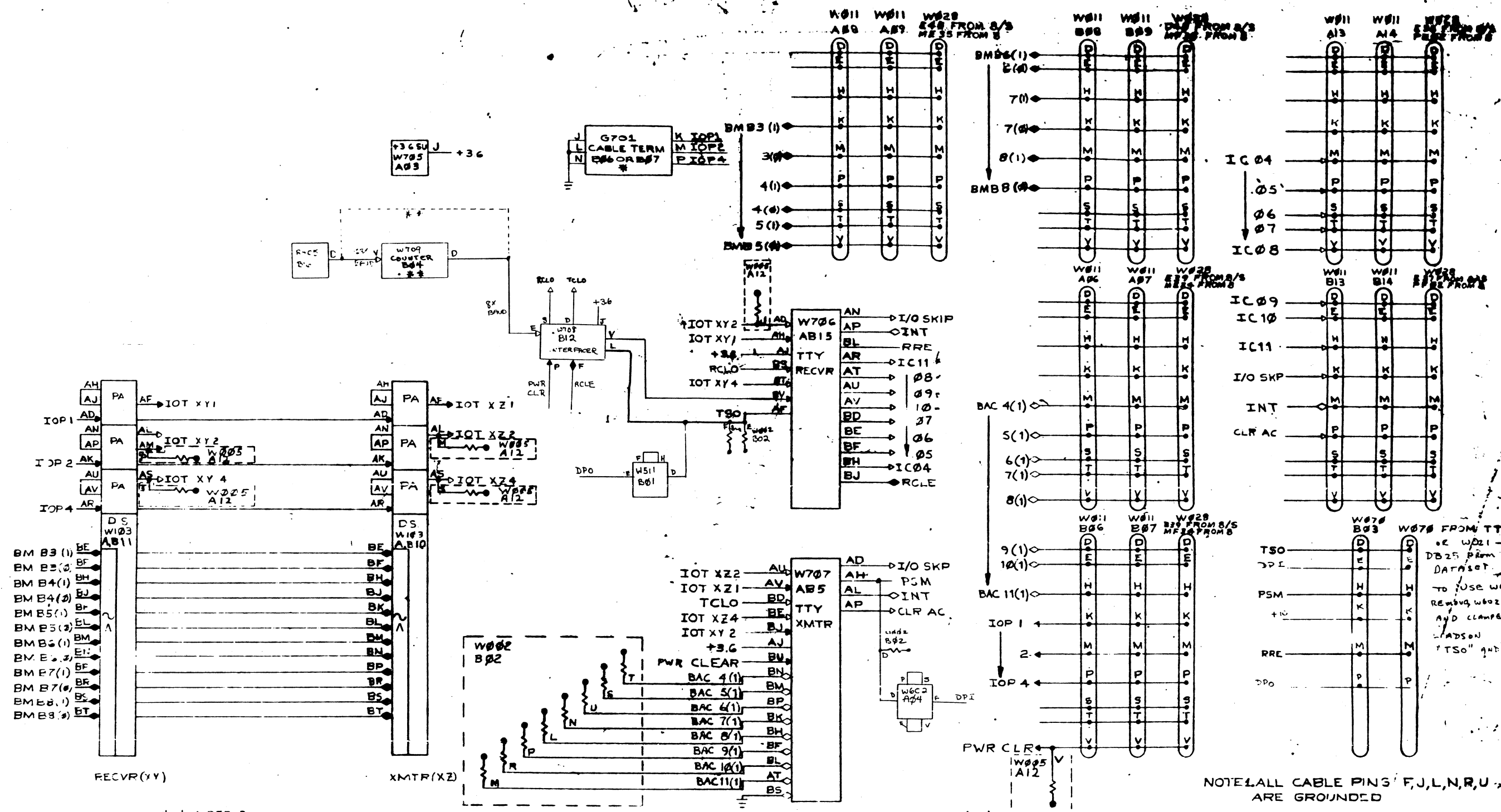
PARTS LIST		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				REVISIONS		
PART NO.	DRWG. NO.	NO. REQD.	DESCRIPTION ITEM — STOCK SIZE — CAT. NO. — MFG.	DEC. STOCK NO.	CHANGE NO.	DATE	ENG.	
		1	W705 +3,6 Volt Power Supply		A-61	4-22-68	QuR	
		1	R405 CLOCK					
		1	W005 Clamped Loads					
		1	W706 TELETYPE RECEIVER					
		2	W103 DEVICE SELECTOR					
		1	W707 TELETYPE TRANSMITTER					
		1	W002 CLAMPED LOADS					
		1	G701 CABLE TERMINATOR					
		1	W511 NEG. INPUT CONVERTER					
		1	W602 EIA CONVERTER					
		1	W708 INTERFACER					
		1	W709 COUNTER * SEE NOTE 3 ON D-BS-7605291-0-8					

MADE BY J. P. Rickett	DATE 7/29/68	TITLE MODULE LOCATION TYPE PT08-FX	SIZE A	CODE PL	NUMBER 7605291-0-7	REV. A
CHECKED J. P. Rickett	DATE 3/28/68	FOR	ASSY. NO.		SHEET 1 OF 1	
DATE 12/1/68						

DATE FROM NO. 100



This drawing and specifications, together with the accompanying instructions, constitute the entire contract for the purchase of the equipment described herein. No other conditions, specifications, or drawings shall be used in the construction or operation of the equipment unless specifically referred to in the instructions.



NOTE 3
 THE W701 IS USED ONLY WHEN EIGHT TIMES THE DATASET BAUD IS LESS THAN 4KHZ.
 THE JUMPER INDICATED IS USED IN THE ABSENCE OF THE W701

NOTE 2
 THIS MODULE CAN HAVE EITHER LOCATION DEPENDING ON WHICH OF THESE TWO SLOTS THE I/O CABLE HAS BEEN INSERTED. ON PDP-8 OR 8/S COMPUTERS WITH OPTIONS OTHER THAN THE PTOS, THE G701 MUST BE INSERTED IN THE I/O DEVICE AT THE END OF THE I/O CABLE IN THE CABLE SLOT THAT PROVIDES I/O BUS EXTENSION FOR IOP'S 1,2,4

NOTE: ALL CABLE PINS F, J, L, N, R, U ARE GROUNDED

REV	DATE	BY	CHK
ECO	261		

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	CRYSTAL DATASET CONTROL (PT03B WITH FX OPTION)	7605291-0-8	A

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 4/4/68

TITLE PT08

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGED SHEET 3	261	—	4-22-68	D. O'Connor	4/24/68

ENG Norman Wright	APPD N. Wright 4/4/68	SIZE A	CODE SP	NUMBER PT08-A-4	REV A
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DEC FORM NO
DRA 108

SHEET 1 OF 4

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE PT08

0.0 OVERALL DESCRIPTION

The PT08 is a serial to parallel-parallel to serial converter designed to work between a parallel I/O device and a serial unit such as a Teletype or an asynchronous modem.

1.0 SPECIFICATIONS

The PT08 is offered in several configurations as outlined below. Operation is identical within the unit regardless of the configuration specified.

1.1 Options.

1.1.1 PT08A

This option is used on the PDP-8/S only, and is a single channel Teletype interface mounted in the base of the Teletype unit.

1.1.2 PT08B

Single channel Teletype control, rack mounted.

1.1.3 PT08C

Dual Channel Teletype Control, rack mounted

1.1.4 PT08F

The PT08F is an option that can be installed on a PT08B or PT08C to adapt the input/output lines of the unit for operation with a modem. Two level conversion modules are added (per channel) that convert DEC levels of 0V and -3V to voltages conforming to EIA Standard RS-232B.

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SHEET 2 OF 4

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE PT08

1.1.5 PT08FX

The PT08FX is an option that can be supplied with the
option that will adapt the unit to crystal clock
control.

1.2 Mechanical Packaging1.2.1 Dimensions

All PT08 configurations, with exception of the PT08A,
are contained in a Standard 1943 mounting panel.

Width	19.0 inches
Height	5.187 inches
Depth	6.75 inches
Finish	Chromicolt
Power Connections	AMP PASTON
Panel Aid wiring used	through.

1.2.2 Mounting Requirements

Any standard DEC cabinet or 19 inch mounting panel
will accomodate the unit (except PT08A).

1.3 Environmental Specifications1.3.1 Operating temp. range -40°C to $+55^{\circ}\text{C}$ 1.3.2 Noise immunity ≥ 1 Volt.1.4 Power Requirements

Power must be supplied to the unit as follows:

$\pm 10\text{V}$	-15V
1.1 AMP	105 MA
(1.5 AMP	150 MA) PT08FX only.

1.5 Margins

The unit shall operate satisfactory over the following
temp. range:

$\pm 10\text{V}$	$\pm 2\text{V}$
-15V	$\pm 3\text{V}$

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ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE PT08

2.0 CABLING2.1 I/O Cables

Six standard I/O cables are required to connect the
PT08 to the PDP bus.

2.2 Teletype Cable

On units equipped for Teletype Operation, a 12 ft.
cable terminated with a W070 connector is necessary.

2.3 Data Phone Cable

On units equipped for modem operation, a 25 ft. cable
is required. One end terminated with a W021 connector,
the other end terminated with a hooded data set con-
nector (DB-19604-432).

3.0 Tests and/or Diagnostics3.1 Requirements

Maindec 828
Standard PDP-8
Off-line Teletype
Six (6) I/O Cables
One Teletype Cable (12 ft.)

3.2 Procedure

Perform tests as outlined in Maindec 828

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A					W705	R401 RX	W707	W706	W103 TX	W103 RX	IAC 4-8 (8/I J5)		BAC 4-8 (8/I J1)		BMB 3-5 (8/I J3)	
B				W070	W005	R401 TX					IAC 9-11 (8/I J6)		BAC 9-11 (8/I J2)		BMB 6-8 (8/I J4)	

Module location derived from tracing wiring. Unused slots have no connections other than power.