This file is named Backplane Pinout.xls
and can be found at
Network Neighborhood\Ppdserver1\ETT.PPD\PROJECTS\Ett_ES\CDMS\crates\9U

50 Pin D Connector
Detector I/O
Slots 1 thru 9, and
12 thru 20
[Crate Front View]

J1

Pin #		Pin #		Pin #	
50	Qi Feedback			17	FEGND
		33	FEGND		
49	FET Temp+			16	Qi Drain
		32	FEGND		
48	FEGND			15	Qi Bias
		31	Qi Source		
47	FEGND			14	FEGND
		30	Qo Feedback		
46	FET Heater-			13	FEGND
		29	FEGND		
45	FET Heater +			12	Qo Drain
		28	FEGND		
44	FEGND			11	Qo Bias
		27	Qo Source		
43	FEGND			10	FEGND
		26	LED 2		
42	LED 1			9	FEGND
		25	FEGND		
41	FBout C			8	SQUID Bias C
		24	FEGND		
40	FEGND			7	QET Bias C
		23	SQUID Bias D		
39	FEGND			6	FEGND
		22	Fbout D		
38	QET Bias D			5	FEGND
		21	FEGND		
37	FBout A			4	SQUID Bias A
		20	FEGND		
36	FEGND			3	QET Bias A
		19	SQUID Bias B		
35	QET Bias B			2	FBout B
		18	FEGND		
34	FEGND			1	FEGND

The backplane connector is
part # AMP 205211-2

The mating connector on the
module is part # AMP 745355-4

This ZIP connector will be mounted to a brass plate
that is machined to match the backplane connector

48 Pin DIN Connector
Crate Power
Slots 1 thru 21
[Crate Front View]

J2

Pin #	Row A	Row B	Row C
1	FEGND	Aux Heater Power+	FEGND
2	FEGND	Aux Heater Power-	FEGND
3	FE +15	FE +15	FE +15
4	FEGND	FEGND	FEGND
5	FE -15	FE -15	FE -15
6	FEGND	FEGND	FEGND
7	FEGND	FEGND	FEGND
8	AGND	AGND	AGND
9	A15+	A15+	A15+
10	AGND	AGND	AGND
11	A15-	A15-	A15-
12	AGND	AGND	AGND
13	10Hz+	AGND	VARIABLE+
14	10Hz-	AGND	VARIABLE-
15	1kHz+	**Spare**	Trig+
16	1kHz-	**Spare**	Trig-

The backplane connector is
part # AMP 535034-4

The mating connector on the
module is part # AMP 650948-5

This connector information is the same for
both the ZIP and RTF modules

25 Pin D Connector
Detector Output
Slots 1 thru 9, and
12 thru 20
[Crate Front View]

J3

Pin #			Pin #
		Spare 3	13
25	AGND		
		SQD offset Mon	12
24	AGND		
		SQC offset Mon	11
23	AGND		
		SQB offset Mon	10
22	AGND		
		SQA offset Mon	9
21	AGND		
		Spare 2	8
20	AGND		
		Spare 1	7
19	AGND		
		SQUID D	6
18	AGND		
		SQUID C	5
17	AGND		
		SQUID B	4
16	AGND		
		SQUID A	3
15	AGND		
		Qo Out	2
14	AGND		
		Qi Out	1

The backplane connector is
part # AMP 207463-1

The mating connector on the
module is part # AMP 745353-4

This ZIP connector is mounted
to a machined cutout in the
backplane.

Slots 1 thru 20
Detector n
(n = 1 through 18)
[Crate Front View]

J4-1

Pin #	Row A	Row B	Row C
1	5 Volts	5 Volts	5 Volts
2	5 Volts	5 Volts	5 Volts
3	5 Volts	5 Volts	5 Volts
4	5 Volts	5 Volts	5 Volts
5	DGND	DGND	DGND
6	D0	DGND	D8
7	D1	DGND	D9
8	D2	DGND	D10
9	D3	DGND	D11
10	D4	DGND	D12
11	D5	DGND	D13
12	D6	DGND	D14
13	D7	DGND	D15
14	DGND	DGND	DGND
15	A 0	DGND	A 8
16	A 1	DGND	A 9
17	A 2	DGND	A 10
18	A 3	DGND	A 11
19	A 4	DGND	A 12
20	A 5	DGND	A 13
21	A 6	DGND	A 14
22	A 7	DGND	A 15
23	DGND	DGND	DGND
24	Read	DGND	Write
25	DGND	DGND	DGND
26	5 Volts	5 Volts	5 Volts
27	5 Volts	5 Volts	5 Volts
28	5 Volts	5 Volts	5 Volts
29	Local Address A4	Local Address A3	5 Volts
30	Local Address A2	Local Address A1	Local Address A0
31	DGND	DGND	DGND
32	Bussed Spare 1	Bussed Spare 2	Sync out

The backplane connector is
part # AMP 535032-4

The mating connector on the
module is part # AMP 650947-5

This connector information is the same for
both the ZIP and RTF modules

Slot 21
GPIB Controller
[Crate Front View]

J4-2

Row A	Row B	Row C	Pin #
spare	5 Volts	Trig1-	1
spare	5 Volts	Trig1+	2
5 Volts	5 Volts	spare	3
5 Volts	5 Volts	spare	4
DGND	DGND	DGND	5
D0	DGND	D8	6
D1	DGND	D9	7
D2	DGND	D10	8
D3	DGND	D11	9
D4	DGND	D12	10
D5	DGND	D13	11
D6	DGND	D14	12
D7	DGND	D15	13
DGND	DGND	DGND	14
A 0	DGND	A 8	15
A 1	DGND	A 9	16
A 2	DGND	A 10	17
A 3	DGND	A 11	18
A 4	DGND	A 12	19
A 5	DGND	A 13	20
A 6	DGND	A 14	21
A 7	DGND	A 15	22
DGND	DGND	DGND	23
Read	DGND	Write	24
DGND	DGND	DGND	25
5 Volts	5 Volts	5 Volts	26
5 Volts	5 Volts	5 Volts	27
5 Volts	5 Volts	5 Volts	28
5 Volts	5 Volts	5 Volts	29
5 Volts	5 Volts	5 Volts	30
DGND	DGND	DGND	31
Bussed Spare 1	Bussed Spare 2	Sync out	32

The backplane connector is
part # AMP 535032-4

The mating connector on the
module is part # AMP 650947-5

This connector information is the same for
both the ZIP and RTF modules

37 Pin D Connector
DC Power Sense
Outputs
[Crate Front View]

J5

Pin #			Pin #
		spare	19
37	spare		
		spare	18
36	spare		
		spare	17
35	spare		
		spare	16
34	spare		
		remote	15
33	remote		
		remote	14
32	remote		
		remote	13
31	HEATER gnd		
		HEATER +	12
30	-15V FE gnd		
		-15V FE	11
29	+15V FE gnd		
		+15V FE	10
28	-15V ANA gnd		
		-15V ANA	9
27	+15V ANA gnd		
		+15V ANA	8
26	Digital gnd		
		Digital +	7
25	HEATER gnd		
		HEATER +	6
24	-15V FE gnd		
		-15V FE	5
23	+15V FE gnd		
		+15V FE	4
22	-15V ANA gnd		
		-15V ANA	3
21	+15V ANA gnd		
		+15V ANA	2
20	Digital gnd		
		Digital +	1

The backplane connector is
part # AMP 207463-1

The mating connector on the
module is part # AMP 745353-4

This connector information is the same for
both the ZIP and RTF modules

NOTES;

1	Revision 10/23/97 changed 48 pin contacts C13,C14,C15 and C16
2	Revised view of 50 Pin and 25 Pin connectors to show proper 0rientation on 4/7/99
3	10 Layer Backplane
4	Revision 12/06/00 added the J5 connector information