

Examples

Crates and Power Supplies



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ONE TECHNOLOGY MULTIPLE SOLUTIONS

AMC Connector

Protocol Agnostic



- Port is differential receive and differential transmit lines

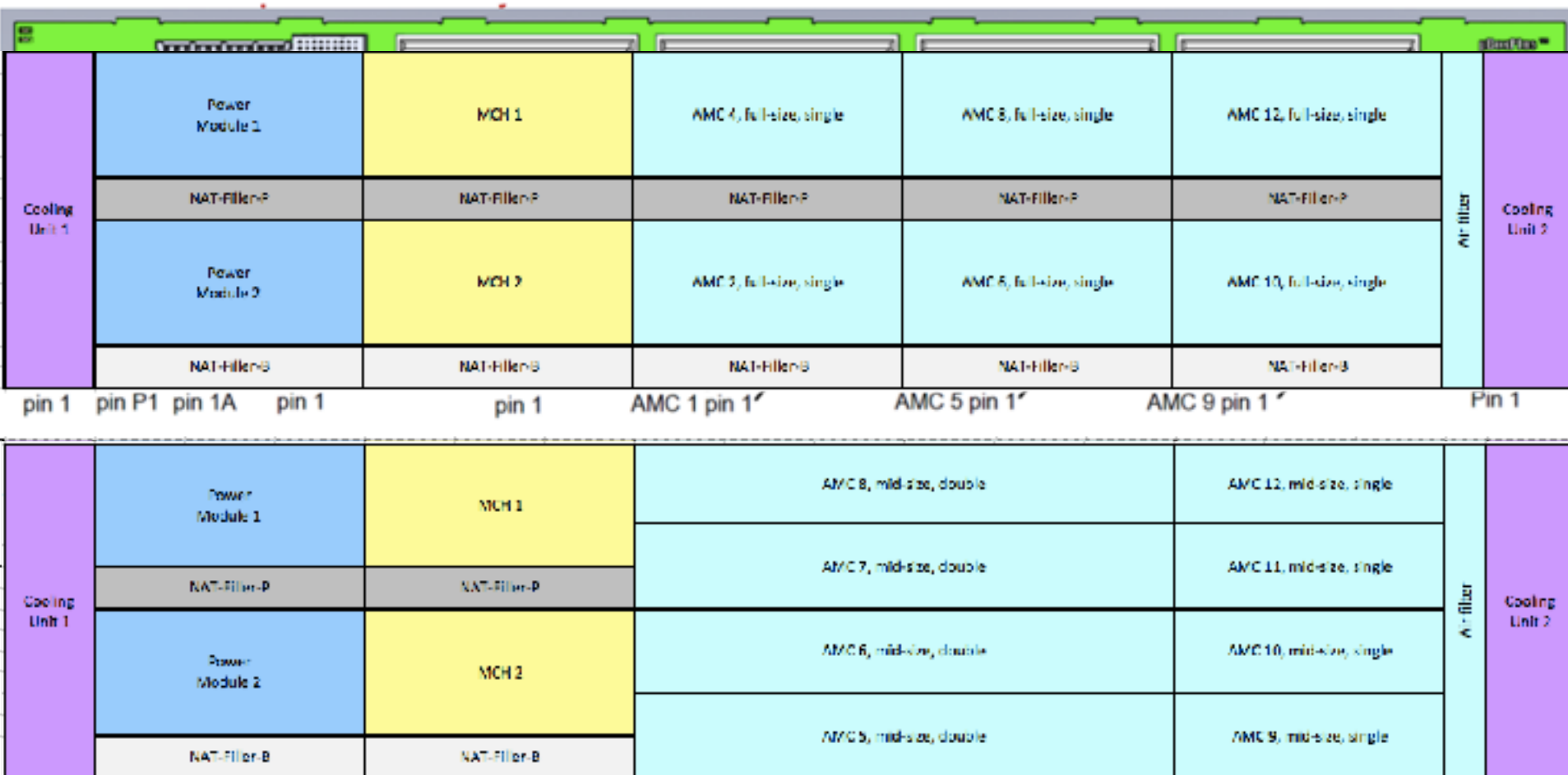
Pin No.	AMC-Signal	AMC-Signal	Pin No.
1	GND	GND	170
2	PWR	TDI	169
3	/PS1	TDO	168
4	PWR_IPMB	/TRST	167
5	GA0	TMS	166
6	RESVD	TCK	165
7	GND	GND	164
8	RESVD	Tx20+	163
9	PWR	Tx20-	162
10	GND	GND	161
11	Tx0+	Rx20+	160
12	Tx0-	Rx20-	159
13	GND	GND	158
14	Rx0+	Tx19+	157
15	Rx0-	Tx19-	156
16	GND	GND	155
17	GA1	Rx19+	154
18	PWR	Rx19-	153
19	GND	GND	152
20	Tx1+	Tx18+	151
21	Tx1-	Tx18-	150
22	GND	GND	149
23	RLINK2_P	Rx18+	148
24	RLINK2_N	Rx18-	147

43	GND
44	Tx4+
45	Tx4-
46	GND
47	Rx4+
48	Rx4-
49	GND
50	Tx5+
51	Tx5-
52	GND
53	Rx5+
54	Rx5-
55	GND

Port 4

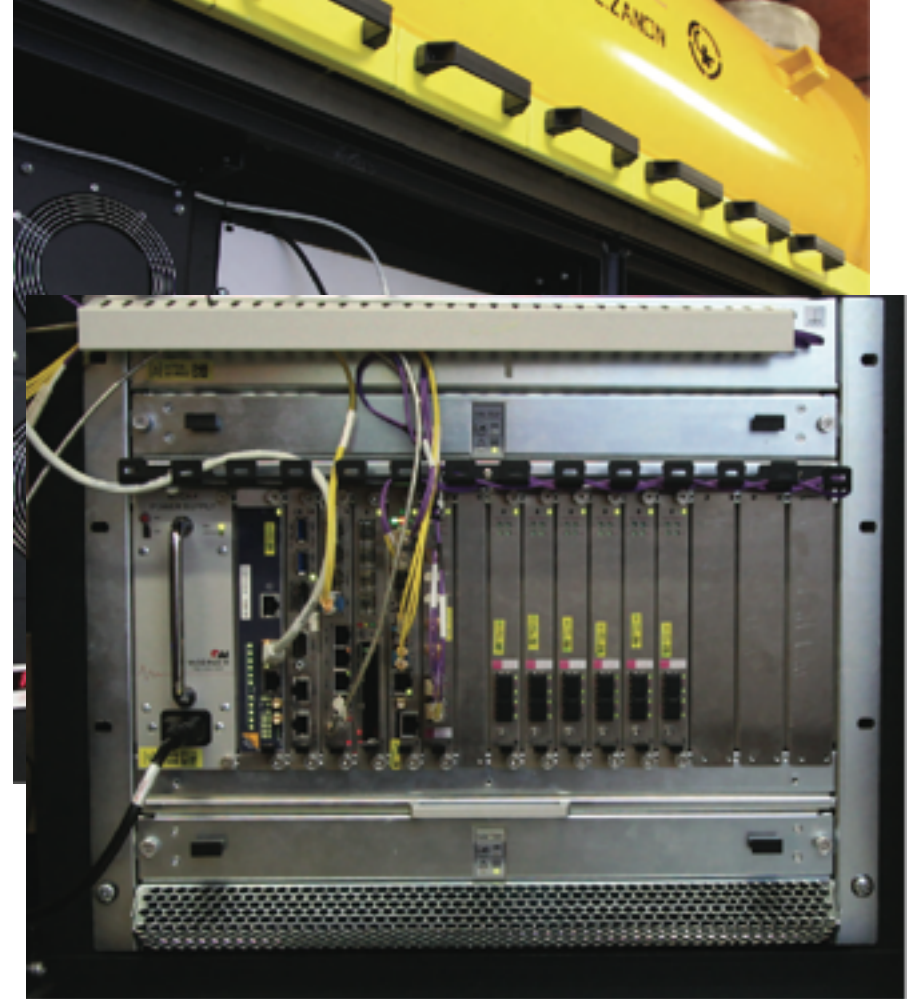
Port 5

2U, Redundant, 12 Slots NATIVE-C2



Application Example: XFEL

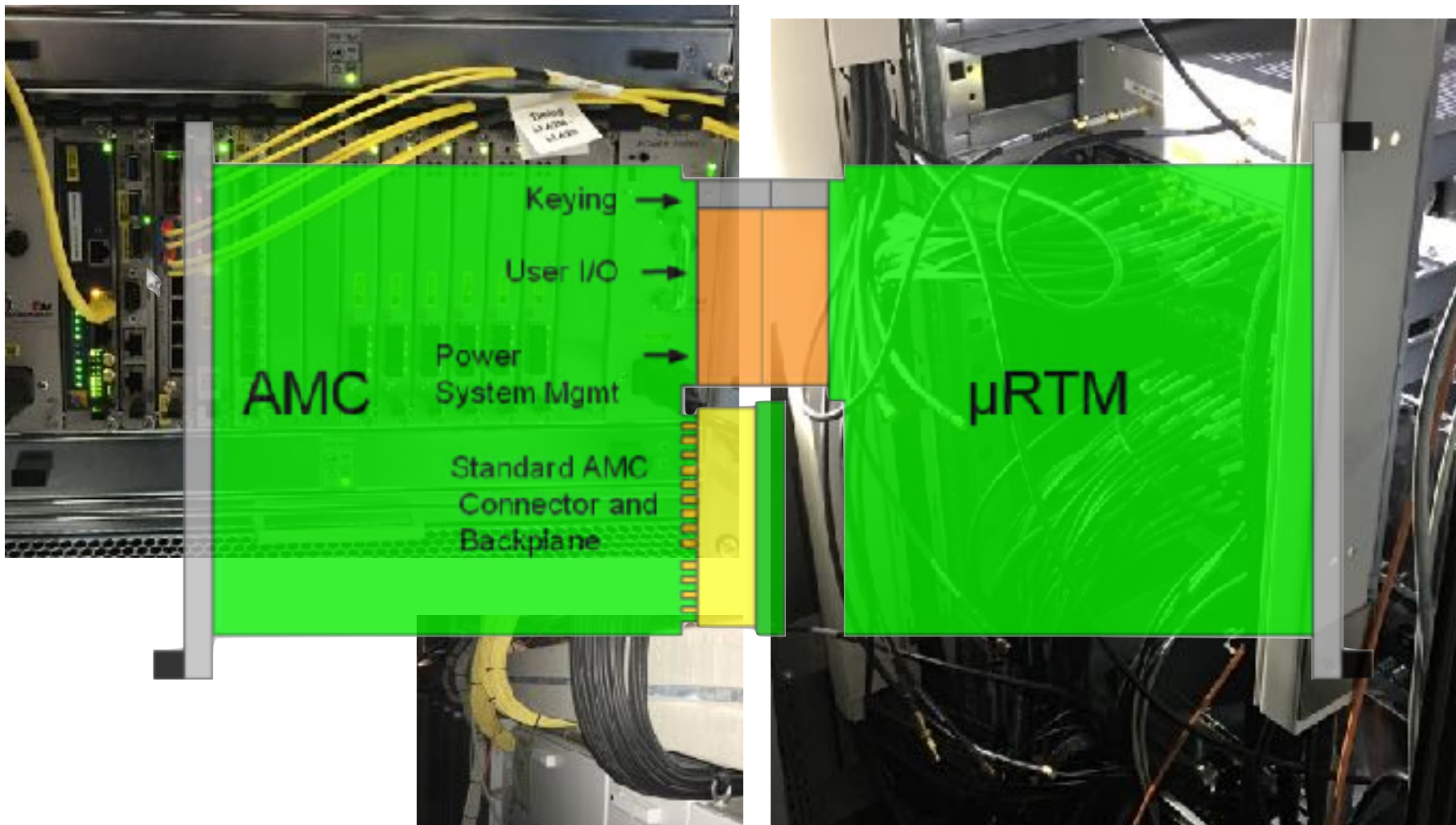
150 NAT-MCH-PHYS and 50 NAT-MCH-PHYS80



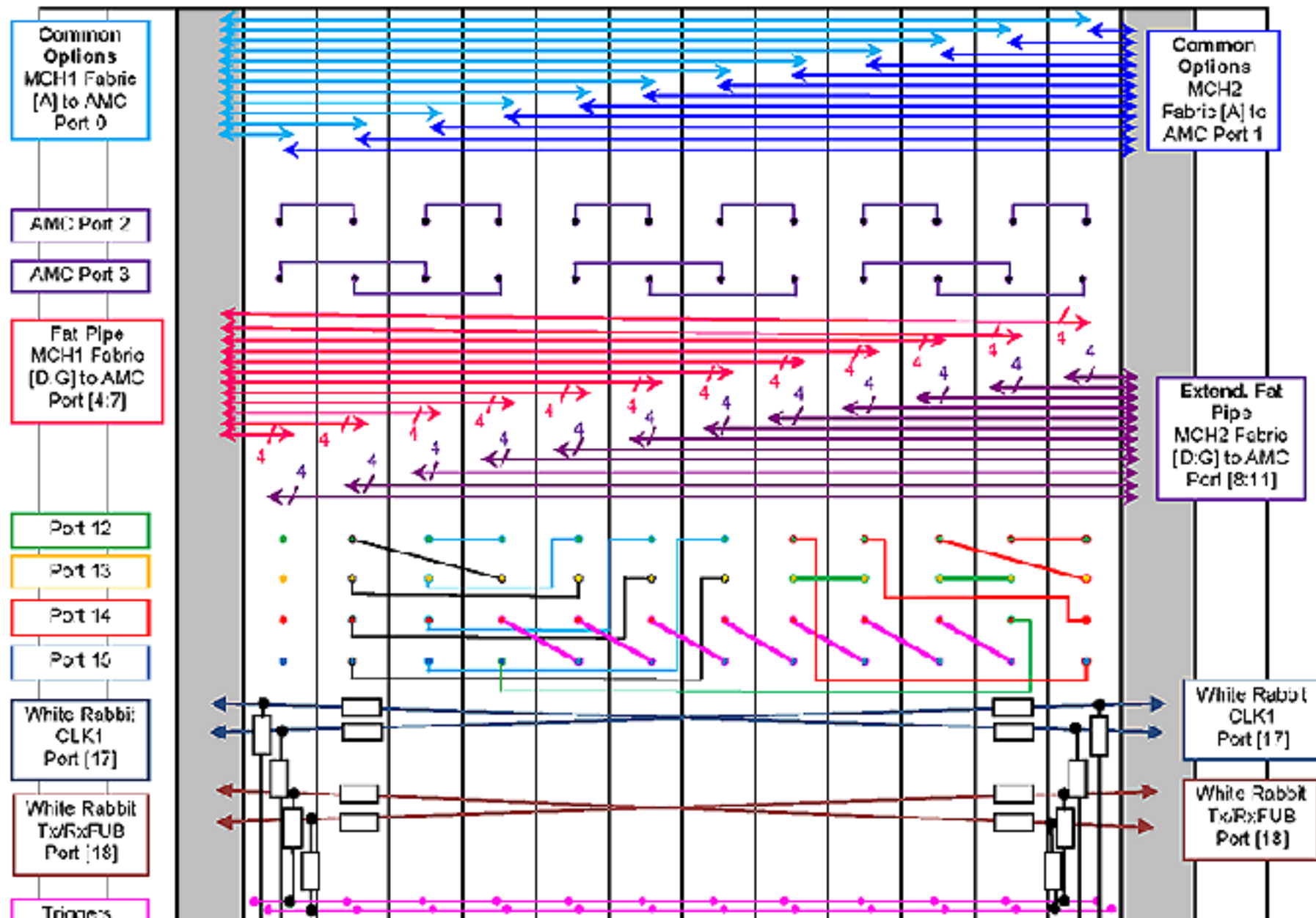


Advantage

Standard: MTCA.4



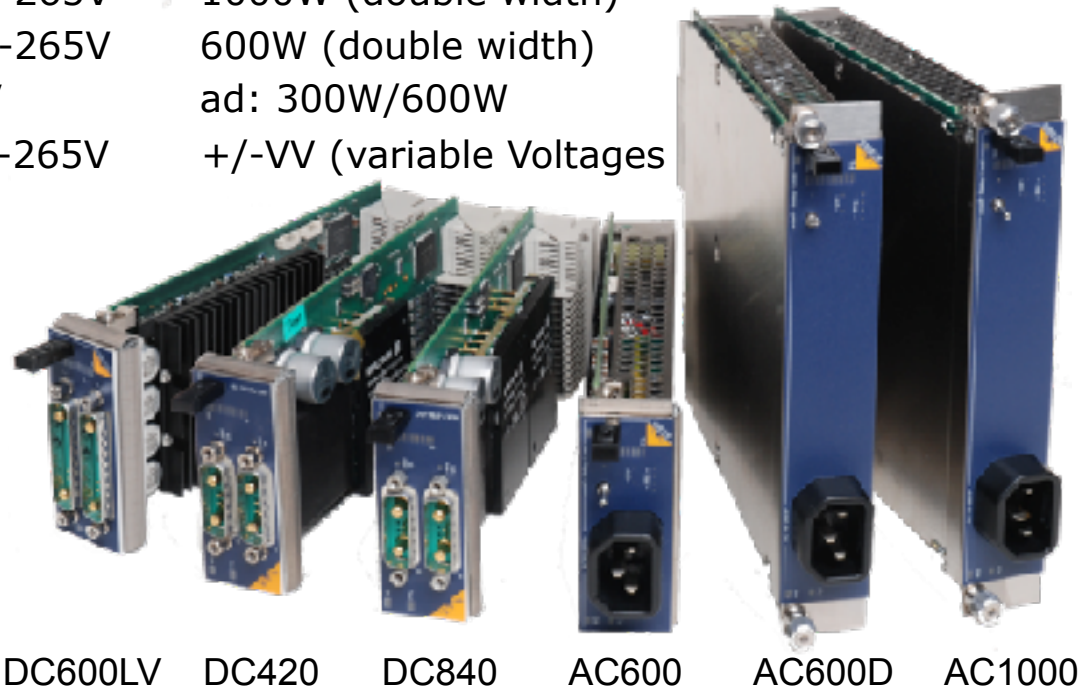
N.A.T. NATIVE-R9 Backplane Topology, 23005-498



Power Modules for MTCA.0 and MTCA.4

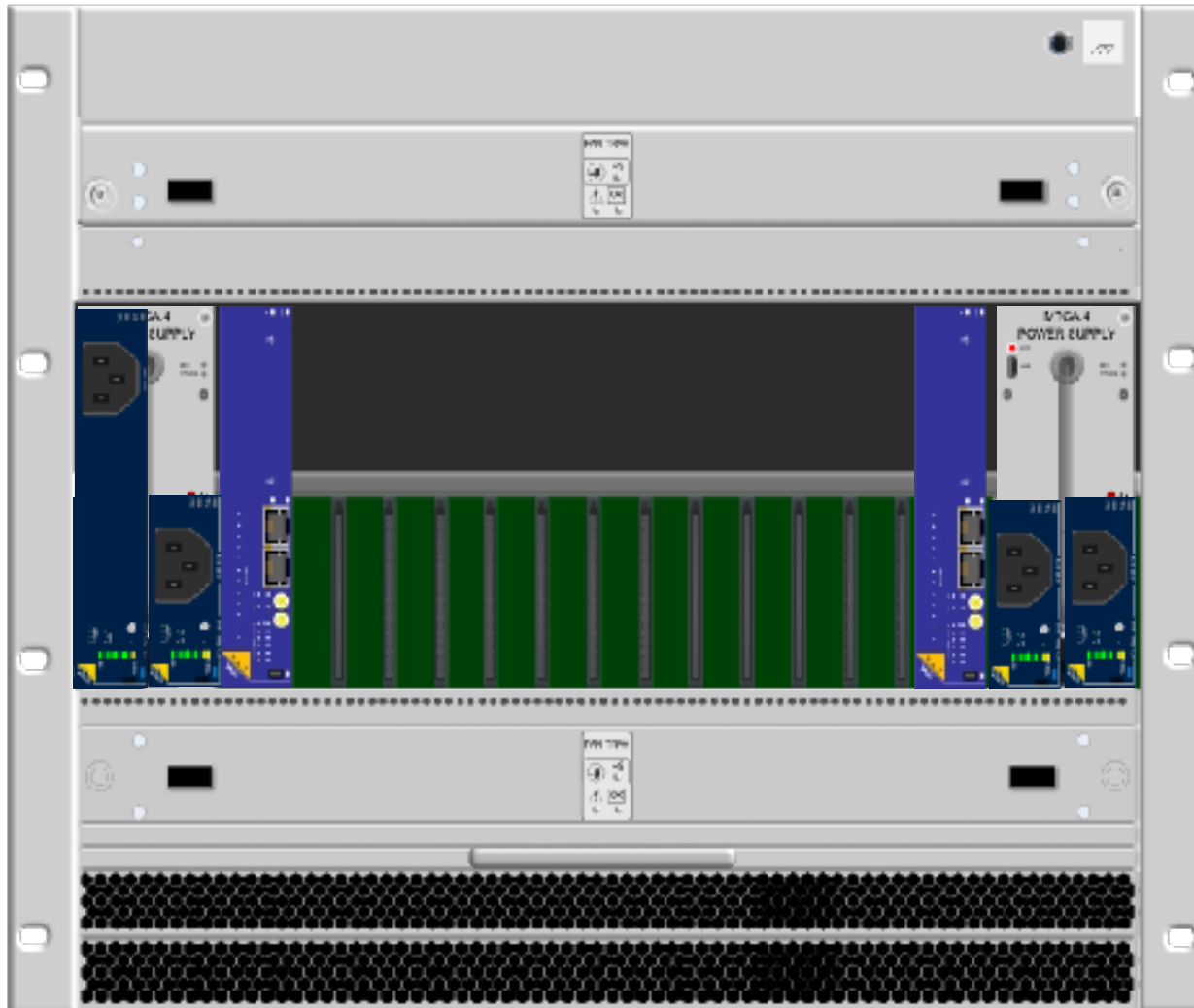


- | | INPUT | PAYLOAD |
|------------------|-------------|---------------------------|
| • NAT-PM-DC420 | DC -48V | 420W |
| • NAT-PM-DC840 | DC -48V | 840W |
| • NAT-PM-AC600 | AC 110-265 | 600W |
| • NAT-PM-AC600D | AC 110-265V | 600W (double width) |
| • NAT-PM-AC1000 | AC 110-265V | 1000W (double width) |
| • NAT-RPM-PSC | AC 110-265V | 600W (double width) |
| • NAT-PM-DC600LV | DC 24V | ad: 300W/600W |
| • NAT-RPM-PSC | AC 110-265V | +/-VV (variable Voltages) |



Backplanes with 4 Power Module Sites

1, 2, 3, 4 PMs: Redundancy, Load Sharing



NATView Power Configuration Manager

Redundancy



Power Configuration Manager

Cancel Quit and Save

Status: **OK**

Power Channel:	1 MCI1	2 MCI2	3 CU1	4 CU2	5 AMC1	8 AMC2	7 AMC3	6 AMC4	9 AMC5	10 AMC6	11 AMC7
Max. Power Output (mA):	7000	7600	7600	7500	7200	7200	7200	7200	7200	7200	7200
Required Power (mA):	3500	n/a	7500	7500	n/a	7200	n/a	n/a	n/a	800	n/a

PM enable

<p>PM1</p> <p>sum : 116200 mA</p> <p>max: 50000 mA</p> <p>primary (0)</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>PM2</p> <p>sum : 116200 mA</p> <p>max: 50000 mA</p> <p>secondary (1)</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>PM3</p> <p>sum : 116200 mA</p> <p>max: 50000 mA</p> <p>undefined (f)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PM4</p> <p>sum : 116200 mA</p> <p>max: 50000 mA</p> <p>undefined (f)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

It is time ... to change your Computing Platform!

