

Elma Bustronic Product Overview



VME Backplanes

	Slots	Daisy Chain	Power	Notes
Monolithic - 6U	2-10, 12, 14-21	Auto	Power Taps	n/a
J1 - 3U	3-12, 14-18, 20, 21	Auto	Power Taps	n/a
J2 - 3U	3-5, 7, 9, 12, 14, 20, 21	n/a	Power Taps	n/a
J3 - 3U	3-21	n/a	Power Taps	n/a
Development - 3U	3-21	n/a	Power Taps	n/a
Overlays	2-6	n/a	n/a	n/a
J2 VSB Overlay	2-6	n/a	n/a	n/a

VME64x/VME320 Backplanes

	Slots	Daisy Chain	Power	Notes
VME64x - 6U	5, 8, 9, 12, 14, 15, 21	Electronic	Power Taps	n/a
VME64x - 7U	2-10, 12, 15, 16, 18, 20, 21	Electronic	Power Taps	n/a
VME320	6, 7, 9, 12, 15, 20, 21	Manual	Power Taps	320Mbps

VXI Backplanes

	Slots	Daisy Chain	Power	Notes
VXI "C" - 6U	5, 6, 8, 9, 11, 13	Electronic	Power Taps	active/passive termination option
VXI "D" - 9U	5, 6, 8, 9, 13	Electronic	Power Taps	active/passive termination option

CompactPCI Backplanes

	Slots	System Slot	Power	Bus Width
cPCI - 3U	4, 6, 8	Right	6/32 nuts*	64-bit***
cPCI - 3U (32-bit)	8	Right	6/32 studs**	32-bit
cPCI - 3U (32-bit)	3	Left	6/32 nuts*	32-bit
cPCI - 6U	3, 4, 5, 6, 8	Right	6/32 nuts*	64-bit***
H.110 - 6U	4, 5, 6, 8	Right	6/32 nuts*	64-bit***
cPCI Low Profile - 6U	4	Right	6/32 studs**	64-bit***
cPCI Low Profile - 6U	8, 21	Left	6/32 studs**	64-bit***
Low Profile - 6U, Bridgeable	8, 21	Left	6/32 studs**	64-bit***
cPCI Low Profile - 6U (32-bit)	6, 8	Left	6/32 studs**	32-bit
cPCI Low Profile - 6U H.110	8	Left	6/32 studs**	64-bit***
cPCI Low Profile - 7U	2, 3	Left	6/32 studs**	64-bit***
cPCI Low Profile - 7U H.110	2	Left	6/32 studs**	64-bit***
cPCI EasyPlug - 3U	8	Right	1 vert. 47-pin Positronic	32-bit*
cPCI EasyPlug - 6U	8, 14, 16	Right	1-6 vert. 47-pin Positronic	64-bit*
cPCI EasyPlug - 6U H.110	14, 16	Right	2-6 vert. 47-pin Positronic	64-bit*
cPCI EasyPlug - 9U	2, 4, 6, 8	Right	1-3 horiz. 47-pin Positronic	64-bit*
cPCI EasyPlug - 9U H.110	2, 4, 6, 8	Right	1-3 horiz. 47-pin Positronic	64-bit*

* Nuts on side of the backplane

** Studs between slots

*** 32-bit capable

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Switched Fabric Backplanes

	Slots	System Slot	Fabric Slot	Bus
PICMG 2.17 Development	17	2	2	cPCI, H.110
PICMG 2.17 Backplane	8	1	1	cPCI
PICMG 2.16 - Star	4, 6, 8	1	1	cPCI
PICMG 2.16 - Dual Star	8	1	2	cPCI
PICMG 2.16 H.110 - Star	4, 6, 8	1	1	cPCI, H.110
PICMG 2.16 H.110 - Dual Star	4, 8	1	2	cPCI, H.110
cPCI Express	4, 6	2 (left)	2 (Type 2)	0, 2 (Legacy cPCI)
cPCI Plus IO	4	1	n/a	4 x CPCI S.O, 4 legacy
cPCI Serial Backplane	9	1	n/a	1 x CPCI S.O, 8 legacy

AdvancedTCA Backplanes

	Slots	Hub Slots	Node Slots	Shelf Mgmt. Conn.
ATCA - Dual Star	14	2	12	Pluggable
ATCA - Mesh	2, 5, 14, 16	All	All	Pluggable

VXS Backplanes

	Slots	Hub Slots	Node Slots	Notes
VXS - Star	5, 8, 10	1	4, 7, 9	n/a
VXS - Switchless	5	0	3 Switchless, 2 VME64x	n/a
VXS - Dual Star	8, 12*, 18, 20*, 21	2	6, 10, 16, 18, 18+1 VME64x	*Optional ethernet control channel

MicroTCA Backplanes

	AMC Slots	MCH	PM	Notes
uTCA - Star	12	1	1	Full Size
uTCA - Dual Star	10	2	2	Full Size
uTCA - Cube	6	1	1	Full Size
uTCA - MicroSlim	6, 12	1, 2	1, 2	Mid Size

OpenVPX/VPX Backplanes

	Slots	VPX Slots	Other Slots	Profiles
OpenVPX Backplanes - 3U	5, 6, 9	5, 6, 9	n/a	See OpenVPX config. sheets
OpenVPX Backplanes - 6U	5, 6	5, 6	n/a	See OpenVPX config. sheets
OpenVPX Hybrid - 6U	7, 17	5, 14	2 VME64x, 3 VME64x	See OpenVPX config. sheets
VPX Power & Ground - 3U	1, 5, 6	1, 5, 6	n/a	n/a
VPX Power & Ground - 7U	1, 4	1, 4	n/a	n/a
VPX Test Backplanes	2	2	n/a	n/a

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Backplane Accessories

	Form Factors	Front Panel Handles	Card Guide Handles	Notes
VXI Test Extender	6U x 340mm	No	Yes	Switch isolation
VME64x Test Extender	6U x 220mm	No	Yes	Switch isolation
cPCI Test Extender	6U x 220mm	Yes	Yes	Switch isolation
cPCI Test Extender- Rear	6U x 180mm	Yes	Yes	n/a
VME Test Extender	(3U, 6U, 9U) x (200, 400)	No	Yes	Switch isolation
VXS Test Extender	6U x 220mm	Yes	Yes	Rigid - Flex- Rigid
AMC Test Extender	single module, full size	No	No	n/a
VPX Test Extender	(3U, 6U) x 240mm	Yes	Yes	Rigid - Flex- Rigid
VME Form Factor Extender	3U x 60mm, 6U x 60mm, 120mm, 180mm	n/a	n/a	n/a
VME64x Form Factor Extender	6U x 60mm, 6U x 180mm	n/a	n/a	n/a
cPCI Load Board	6U x 160mm	Yes	n/a	Binary Switches
VME/64x Load Board	Yes	Yes	n/a	Binary Switches
VPX Load Board	(3U, 6U) x 160mm	Yes	n/a	Convection and Conduction Cooled versions
AMC Load Card	single module, full size	Yes	n/a	0-70W Options
Power Interface Boards - 3U	3U x 1.54in, 3U x 3.13in	n/a	n/a	(1 or 2) 47-Pin Connectors
Power Interface Boards - 6U	6U x 1.54in, 6U x 3.13in	n/a	n/a	(1 or 2) 47-Pin Connectors
VPX Serdes Test Module	6U x 220mm	Yes	n/a	Signal Testing
VPX Cabling System	Various lengths	n/a	n/a	wafer to wafer, wafer to connector
VPX Universal RTM	6U x 80mm	Yes	n/a	RTM breakout for all signals

Other Products

Voltage Monitors	Jumper Boards	ISA Backplanes	cPCI Bridge	RTM's
System Monitors	Enclosures	Busbar Kits	PXI Backplanes	Test Boards

** Custom configurations of all of the backplanes above are available. Contact Elma Bustronic for slot sizes and other styles that are not listed. **

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