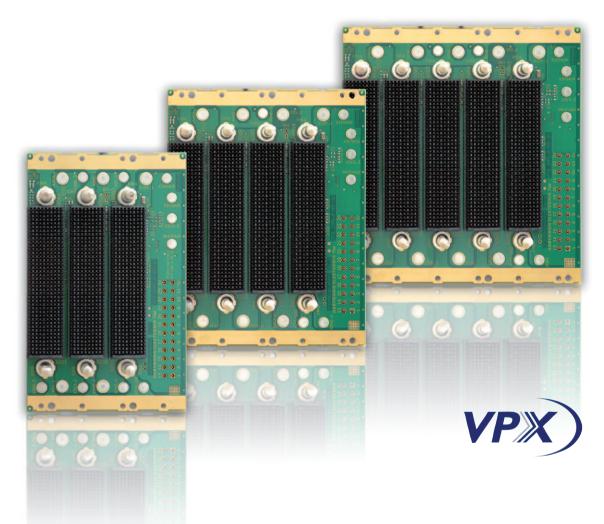


» 3U VPX Distributed Backplanes «



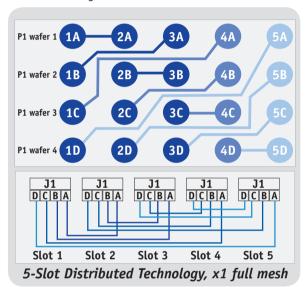
3U 3-Slot, 4-Slot or 5-Slot Distributed Technology

- » Compliant to VITA 46.0 Baseline Application
- » Supports VITA 46.4 x1 PCI Express®
- » Supports VITA 46.10 with RTM Connectors
- » Operating Temperatures: -40° to +85°C

3U 3-Slot, 4-Slot or 5-Slot VPX Distributed Backplanes

Features

- » M4 screws and ATX 24-pole connector for power entry.
- » 4 HP from slot to slot (20.32mm).
- » System management interface on the backplane (I^2C1 , I^2C2).
- » Flexible keying and alignment mechanism,
- with JTAG connector on first slot,
- with geographical address pins.
- » Reference clock.
- » Non-Volatile Memory Read Only signal set by jumper BR1.
- » Battery backup option setting by jumper X5. VBAT external or connected to 3.3 AUX.
- » System reset.
- » P1 reserved signals.



Current Capability

(By using ATX connector see values in brackets)

+12V	40 A	(10 A)
+3.3V	80 A	(20 A)
+5V	80 A	(25 A)
-12V AUX	5 A	
+12V AUX	5 A	
+3.3V AUX	5 A	

Consider: max. 36A/ Slot acc. VITA 46.0 allowed

System Management IPMB (I²C1, I²C2 connector)

There are 2 connectors (5 poles) for system management I^2C1 , I^2C2 .

I ² C1	Signal	I ² C2	Signal	S X
1	SCL1	1	SCL2	
2	GND	2	GND	XISCIA TO SERVICE OF THE SERVICE OF
3	SDA1	3	SDA2	
4	+3.3V_AUX	4	+3.3V_AUX	15 15 15 15 15 15 15 15 15 15 15 15 15 1
5		5		

VBAT (X5 connector)

Normally a battery voltage with approximately 3V is available at pin VBAT of connector VPX-J1. The voltage is externally accessible with connector X5. The battery should be connected to pin 1 and 2 or internally using 3.3V_AUX by closing a jumper between pin 2 and 3.

I.	X5	Signal
	1	GND
	2	VBAT
ľ	3	+3.3V AUX

NVMRO (BR1 Jumper)

If jumper BR1 is closed NVRMO is set to memory writeable.

1 NVMRO 2 GND	BR1	Signal	O HAMA
2 GND	1	NVMRO	
X to D	2	GND	

JTAG (connector XJT1)

For test and programming a JTAG connector (6-pole) is implemented (XJT1).

XJT1	Signal	
1	GND	88
2	TCK	TAC
3	TMS	XJT 1
4	TRST-	
5	TDI	IFDP03-3U-VPXV1
6	TDO	

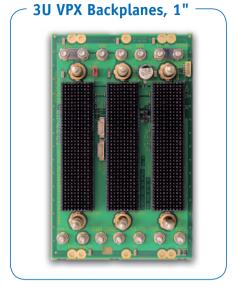
Power connection (X1 or M4 screw)

The main operating voltages and GND are supplied with M4 screw terminals or connector X1 (fits to ATX connector without locking mechanism). The auxiliary operating voltages are supplied via M3 screw terminals. Optimal daughter board supply and trouble-free operation are ensured by the arrangement of the feed modules on the backplane.

X1	Signal	X1	Signal	
1	+3.3V	13	+3.3V	
2	+3.3V	14	-12V	
3	GND	15	GND	
4	+5V	16	PS_ON	
5	GND	17	GND	
6	+5V	18	GND	assume sume sum
7	GND	19	GND	000000000000000000000000000000000000000
8	PWR_OK	20	Res	
9	+5VSB	21	+5V	
10	+12V	22	+5V	THE PERSON
11	+12V	23	+5V	
12	+3.3V	24	GND	

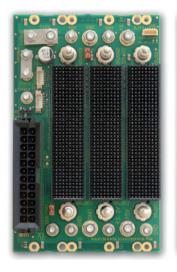
If jumper X6 is closed ATX power supply starts automatically.

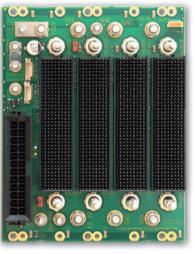
Technical Information Environmental Temperature Range Operating: -40°C +85°C / Storage: -55°C +85°C Safety Flammability Rating UL94-V0 Standard Compliance VITA 46.0-2007 VPX Baseline Standard VITA 46.4-VDSTII PCI Express® on VPX Fabric Connector VITA 46.10-2009 Rear Transition Module for VPX **Physical** PCB Size = H: 128.5 mm - W: 120.7 mm - T: 5.4 mm 3U 5-Slot 0.8" pitch PCB Size = H: 128.5 mm - W: 100.6 mm - T: 5.4 mm 3U 4-Slot 0.8" pitch 3U 3-Slot 0.8" pitch PCB Size = H: 128.5 mm - W: 80.0 mm - T: 5.4 mm 3U 3-Slot 1.0" pitch PCB Size = H: 128.5 mm - W: 80.0 mm - T: 5.4 mm

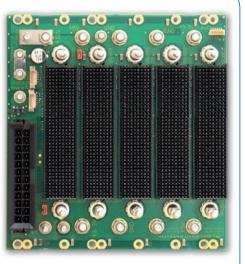


Ordering Information Article Part.-No. Discription IFDP03-3U IFDP03-3U-VPXV1 3U, 0.8" Pitch, 3-Slot Distributed Technology IFDP04-3U IFDP04-3U-VPXV1 3U, 0.8" Pitch, 4-Slot Distributed Technology IFDP05-3U IFDP05-3U-VPXV1 3U, 0.8" Pitch, 5-Slot Distributed Technology IFDP03-1IN-3U IFDP03-1IN-3U-VPXV1 3U, 1.0" Pitch, 3-Slot Distributed Technology, no ATX Supply Connector

3U VPX Backplanes, 0.8", 3-slot, 4-slot and 5-slot Rear Side







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