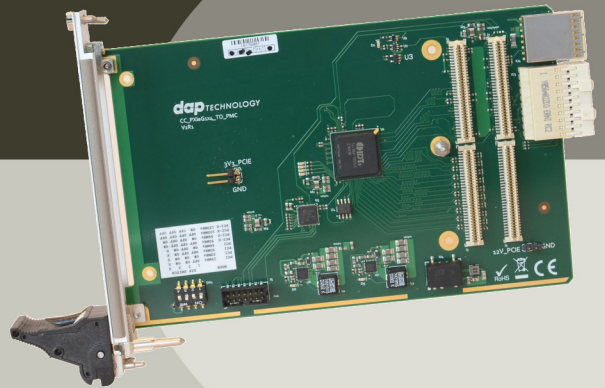


PMC CARRIER
PXIE-CARD
4-LANE



Description

DapTechnology's family of PMC carriers cards adapt PCI Mezzanine Cards (PMC) to a variety of bus architectures including PCI Express (PCIe) and PXIe. PMCs combine the electrical characteristic of the PCI bus with the Common Mezzanine Card (CMC) mechanical dimensions, this creating a small mezzanine card that – with the right carrier cards – can be mounted in industry standard card slots.

With DapTechnology's carrier cards powerful mezzanine cards can be added to systems adding system features like increased I/O channels and/or density or enhanced computing power.

PXI Express / PMC Carrier Card

The PXe/PMC Carrier card is a standard height, half length PXI Express card that supports a single PMC mezzanine module. It installs in any standard PXI Express slot and is compatible with PMC modules operating at various PCI and PCI-X widths and speeds selectable via a dip switch.

The carrier card is available in a single or 4 lane variant.



Configurations

Dip switch settings allow the following configurations:

Mode	Dip Switch			
	1	2	3	4
PCI 25 MHz	OFF	ON	ON	X
PCI 33 MHz	ON	ON	ON	X
PCI 50 MHz	OFF	OFF	ON	X
PCI 66 MHz	ON	OFF	ON	X
PCI-X 50 MHz	OFF	OFF	OFF	ON
PCI-X 66 MHz	ON	OFF	OFF	ON
PCI-X 100 MHz	OFF	OFF	OFF	OFF
PCI-X 133 MHz	ON	OFF	OFF	OFF

Slot Identification

Software can identify the physical location of the carrier card in the PXI chassis by means of the EEPROM Control Register (please refer to the Tsi384 User Manual for more details).

Reading EEPROM address 0xFFFF will return a number ranging from 0 to 32 representing the physical slot number. Reading a byte of EEPROM data consists of a write and a read to/from the EE_CTRL register. In pseudo code:

```
write_pci_reg(carrier_id, 0x0AC, 0x19FFFF00)
pxi_slot = read_pci_reg(carrier_id, 0x0AC) & 0xFF
```

SPECIFICATION:

PCI Express Interface:

Number of PCIe lanes	4
Maximum Speed	2.5Gbps
Form factor	standard height, half length
Compliance	PXI Express Peripheral Module / cPCIe Type 2 Peripheral Board

Bridge:

Chip type	Tundra Tsi384
Compliance	PCI Express PCI/PCI-X Bridge 1.0 PCI-to-PCI Bridge Architecture 1.2

PMC Interface:

PCI width	32 or 64 bits
PCI speed	25, 33, 50 or 66 MHz
PCI-X width	32 or 64 bits
PCI-X speed	50, 66, 100 or 133 MHz
Width selection	automatic
Speed selection	semi-automatic (switch settings limit bus speed)
IO Voltage	3.3V
Card detection	green LED
Compliance	PCI Local Bus 3.0 PCI-X 2.0 (mode 1 only) PCI Bus PMI 1.2

Power System:

to PMC	12V (25W), -12V (2W), 5V (25W), 3.3V (15W)
PMC card power consumption	25W 15W

Package Content:

PMC Carrier Card
User Guide

Product warranty:

36 months limited warranty

Operating Range:

-40 – 85 °C

Compliance:

CE, FCC Class A

Part Number:

CC_PXIeG1x4_TO_PMC

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