

PC/104-Express to XMC/PMC Adapter

General Description

The XMC/PMC expansion allows to integrate 3 XMC or PMC modules. XMC and PMC cards can be mixed on the PIPXMC adapter card according your needs. Any on the market available XMC and PMC mezzanine card (ADC/DAC, FPGA, Avionics XMC/PMC, Graphics, Network, ...) can be used and easily be integrated.

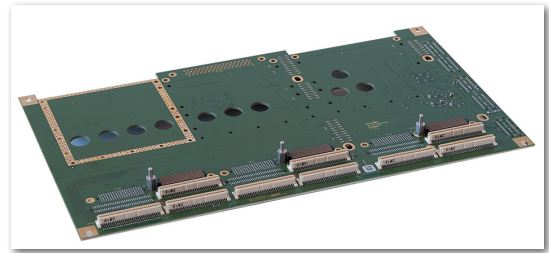
Key features are:

- Three XMC or PMC can be added on one PIPXMC
- Extreme compact design
- PCI/104-Express expansion
- PCI rev. 3.0 (32bit 33/66MHz)
- PCIe rev. 2.0 (for up to 5GT/s)
- Environment temperature -40°C up to +85°C

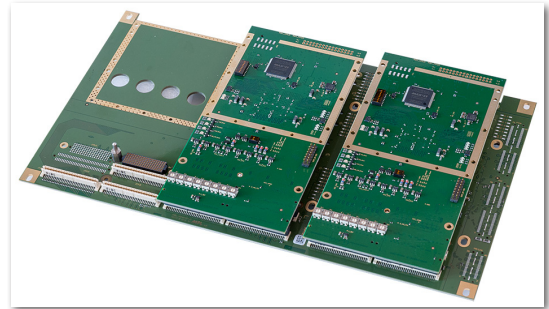
The XMC/PMC adapter has been designed to withstand harsh environments and extreme temperature conditions. The combination of PIP and PIPPMC/PIPXMC is a complete, compact and clever system solution for harsh environment and mission critical applications. The added slots in a fanless, rugged, small packed PC like the PIP, offers new possibilities in defense, avionics, and railway projects.

MPL products are 100% designed and manufactured in Switzerland. All products are fanless, shock and vibration proof, low power, rugged, and long-term* available.

* Typically 10 years or more, 20+ years repairable



XMC/PMC adapter



XMC/PMC adapter with two XMC modules



PIP Solution with three XMC/PMC expansions

Technical Features

Board Key Data

PCI rev. 3.0 32bit 33/66MHz
PCIe rev. 2.0 for up to 5GT/s
XMC standard: VITA 42.3-2006 / PMC standard: IEEE Std 1386.1-20

Power

Power Dissipation Depends on the plugged in XMC/PMC cards, max. total power consumption is defined by PIP solutions for high power applications available, please contact our sales representative

Environment

Storage Temperature -45°C to +85°C (-49°F to +185°F)
Operating Temperature -40°C to +85°C (-40°F to +185°F)
Relative Humidity 5% to 95% non condensing

Standard Compliance

The PIPXMC adapter is designed to meet or exceed the most common standards. Particular references are:
EMC EN 55022, EN 55024, EN 61000, MIL-STD-461E
Shock & Vibration EN 60068
Environmental & Safety EN 50155, MIL-STD-810-F, EN 60601, EN 60950
Approval List CE, IEC 60945, IACS E10

Versions

Reference	Description
PIPXMC-1	XMC/PMC Carrier allowing to install 1 XMC or 3 PMCs (mix also supported)
PIPXMC-4	XMC/PMC Carrier allowing to install 3 XMCs or 3 PMCs (mix also supported)

MPL AG is an ISO9001 certified company

Web: www.mpl.ch
Email: info@mpl.ch

MPL AG, Täfernstrasse 20, CH-5405 Dättwil
Phone +41 56 483 34 34 Switzerland

MPL
High-Tech • Made in Switzerland