

Flexible IO Module Expansion

General Description

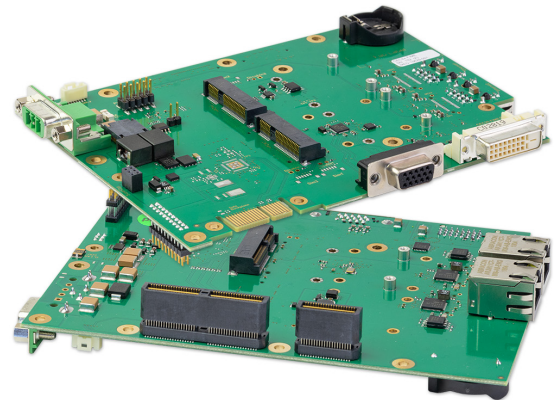
The FIME is designed to expand MPL AGs CEC2x industrial SBC family with up to 3 additional Mini PCI Express sockets, two additional Graphics Interfaces, two additional 2.5GbE Interfaces, additional SATA Interface and other additional functionality.

Key features are:

- Up to 3 mPCIe Sockets (2x with PCIe Gen3 & optional 1x with PCIe Gen 2)
- 1x SATA Controller (optional instead of 1x mPCIe with PCIe Gen 2) with dual SATA3.0 output
- 1x DVI-D Interface
- 1x VGA Interface
- 2x 2.5GbE Nbase-T Interface (Intel I225 controller)
- Additional Power Connector
- CMOS Battery Socket for easy access
- SERLED MK.2 Socket



All MPL products are 100% engineered & manufactured in Switzerland (since 1985).



CEC2x in standard housing with built-in FIME

Specifications

mPCIe Socket	Full-Mini Card Size mini PCI Express socket According to PCI Express Mini Card Electromechanical Specification Rev. 2.0 USB 2.0 support Optional socket for connection of a Sim Card tray
2.5GBase-T Interface	2 separate I225-IT Controller, RJ45 connector with LEDs
DVI-D	DVI-D Single Link Interface
VGA	Supports up to 1920x1200@60Hz Compliant with VESA VSIS v1r2 specification
SATA 3.0	Dual SATA3.0 Interface, up to 6 Gbps per Port SATA3.0 Ports & Power Supply (5.0V) on Backplane Edge Connector
Power Input	5.0V-36.0V / 8A Power Input Input Voltage Filter, Transient Protection, Inrush protection, Polarity inversion protection CEC2x FIME Power Input & CEC2x Power Input can be used simultaneously with separate Power Supplies for protection against Power Supply defects Header to connect an optional Supercap PCB for protection against short Voltage drops
PCB Form Factor	165mm (L) x 125mm (W) x 32mm (H)
Weight	140 g (without mPCIe modules)

Environment

Storage Temperature	-45°C to +85°C (-49°F to +185°F)
Operating Temperature	-45°C to +70°C (-49°F to +158°F)
Relative Humidity	5% to 95%, non-condensing
Shock and Vibration	TBD

Standard Compliance

The FIME 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-810G, EN 60601, IEC / EN 62368
Approval List	CE, IEC 60945, IACS E10

Specifications are subject to change without notice

MPL AG is an ISO9001 certified company

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