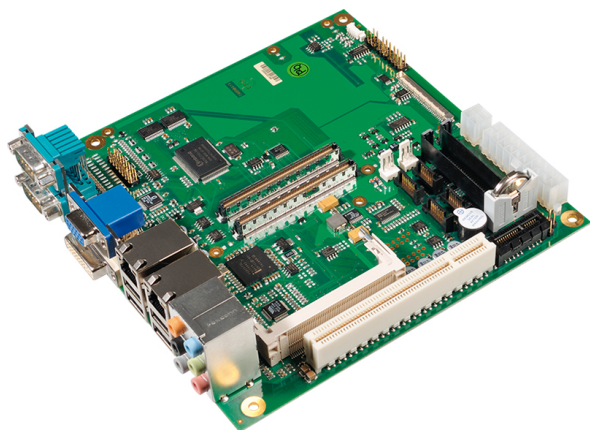


MSC CX-MB-IP1

COM Express™ Type 2 Carrier Board



170x170



N.A.



0 +70

COM  **Express**

Description

The MSC CX-MB-IP1 is an ideal base board platform to integrate any COM Express compliant module in basic or compact format supporting Type 2 of the specification.

Our industrial platform MSC CX-MB-IP1 offers a large variety of interfaces commonly used in industrial applications such as dual Gigabit LAN, USB 2.0, serial, LVDS and VGA/DVI for display support and even USB NAND storage. 32bit PCI and PCI Express are supported with slots and riser cards. This platform can be used for rapid prototyping to assess the suitability of a specific CPU technology or alternatively for low volume production runs as an off-the-shelf solution.

Using the CX-MB-IP1 base-board in combination with a COM express module from our extensive portfolio enables you to quickly achieve a turn-key solution for your industrial platform.

Highlights

- Socket for COM Express™ Type 2 modules (Basic and Compact)
- Mini-ITX format
- One PCI slot, one PCI Express x1 slot via riser card
- One MiniPCI slot, USB NAND storage optional
- Four SATA onboard connectors
- Two CompactFlash sockets
- COM1 / 2, LPT
- Fan control, HW monitor and GPIOs
- HD audio codec with surround support
- Up to eight USB interfaces
- Additional onboard GbE controller (Intel 82573)
- VGA, DVI and LVDS (Jili20) connectors
- ATX power connector (20 + 4 pin)

Technical Data - MSC CX-MB-IP1

Technology	Carrier
Formfactor	mini-ITX
Storage Interfaces	4 x SATA connector; 2 x CompactFlash (Master, Slave)
USB	4 x USB on rear panel 1 x USB internal
Serial Interfaces	2 x RS232C on 9pin Dsub
Bus Interfaces	1 x PCI slot, 32bit V2.1; 1 x miniPCI connector; 1 x PCIe x1 connector
Display Interfaces	VGA connector on rear panel; DVI connector on rear panel; LVDS on Jili30 with EEPROM for display data and backlight connector
Network Interface	1 x GbE from Qseven module on rear panel; 1 x GbE (82573) on rear panel;
Audio Interface	HD Audio codec (VT1708) on 6 audio jacks
Miscellaneous	LPT on pinrow; 4 x GPO, 4x GPI, TTL System control on Winbond W83627THF; 2 x PWM Fan control connectors
Feature Highlights	Fits COM Express Basic and Compact modules
OS Support	BSP (for onboard devices) for Windows and Linux
Power Requirement	Standard 20 pin ATX power and 4pin ATX 12V connector
Environment	Ambient Temperature 0° ... +70°C (operating), -40° ... 85°C (storage) Humidity 5 ... 90% (operating, non-condensing), 5 ... 95% (storage, non-condensing)
Dimensions	170 x 170
Certificates	UL / CE

Order Reference - MSC CX-MB-IP1

Order Number	Description	Reference	Cat
32367	COM Express Industrial Platform with PCI and PCI Express x1; Dual LAN,VGA/DVI, Quad USB, COM1/2, HD-Audio; MiniPCI, SATA, CF onboard,170x170mm (mini-ITX)	MSC CX-MB-IP1 PCBFTX	PV

Accessories

Order Number	Description	Reference
Tool Options		
1051201	Riser card for one PCI and one PCI Express x1 slot	MSC CX-MB-IP-RC1

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