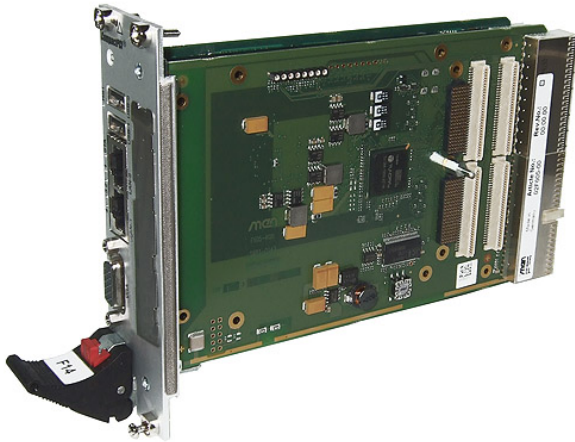


F605 - 3U CompactPCI® Side Card XMC/PMC



- 4 HP extension for 3U Intel® SBCs F14, F15, F17, F18
- 1 XMC slot (PCIe 1 x4 link or 2 x1 links)
- or 1 PMC slot (32/64 bits, 33/66/133MHz, PCI-X)
- PMC rear I/O support via J2 (only in 32-bit backplane)
- -40 to +85°C with qualified components

The F605 is a 4HP XMC or alternatively PMC extension card for 3U Intel® based CompactPCI® single-board computers such as F14, F15, F17, F18 and further boards of the Intel® low power family.

The XMC slot supports either one PCI Express® link with 4 lanes on one XMC connector or 1 link with one lane on each of the two XMC connectors. The PMC slot can be used for 32/64 bit and 33/66 MHz PMC cards and supports up to 133 MHz PCI-X. The board detects automatically whether an XMC or a PMC is plugged.

The F605 is directly plugged to the right side of the respective single-board computer. A robust connector makes for high mechanical stability. It is delivered with an 8HP front panel, replacing the 4HP front panel of a 3U single-board computer and thus resulting in a solid one-piece front panel.

Technical Data

XMC Slot

- Via one PCI Express® link with four lanes from the side-card connector
- Compliant with XMC standard VITA 42.3-200x
- Two configurations adjustable via hex switch
 - One PCI Express® link with four lanes on J15 or
 - Two links with one lane each on J15 and J16

PMC Slot

- Via PCI Express® to PCI-X Bridge
 - Support of PCI-X or PCI local bus specification 2.2
 - Support of one PCI Express® link with up to four lanes
- 32/64-bit, 33/66MHz
- PCI-X, 133MHz

Electrical Specifications

- Supply voltage/power consumption:
 - +12V (-5%/+5%) for XMC and PMC
 - +5V (-5%/+5%) for PMC
 - +3.3V (-5%/+5%) for XMC and PMC
 - -12V (-10%/+10%), 100mA (generated onboard for XMC and PMC)
- Power supply must be provided from the backplane via the CompactPCI® J1 connector
- MTBF: tbd @ 40°C according to IEC/TR 62380 (RDF 2000)

Mechanical Specifications

- Dimensions: conforming to CompactPCI® specification for 3U boards
- Mountable on right side of the CPU
- Weight: 144g (without XMC/PMC)

Environmental Specifications

- Temperature range (operation):
 - -40..+85°C
 - Airflow: min. 10m³/h
- Temperature range (storage): -40..+85°C
- Relative humidity (operation): max. 95% non-condensing
- Relative humidity (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 1g/10..150Hz
- Conformal coating on request

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

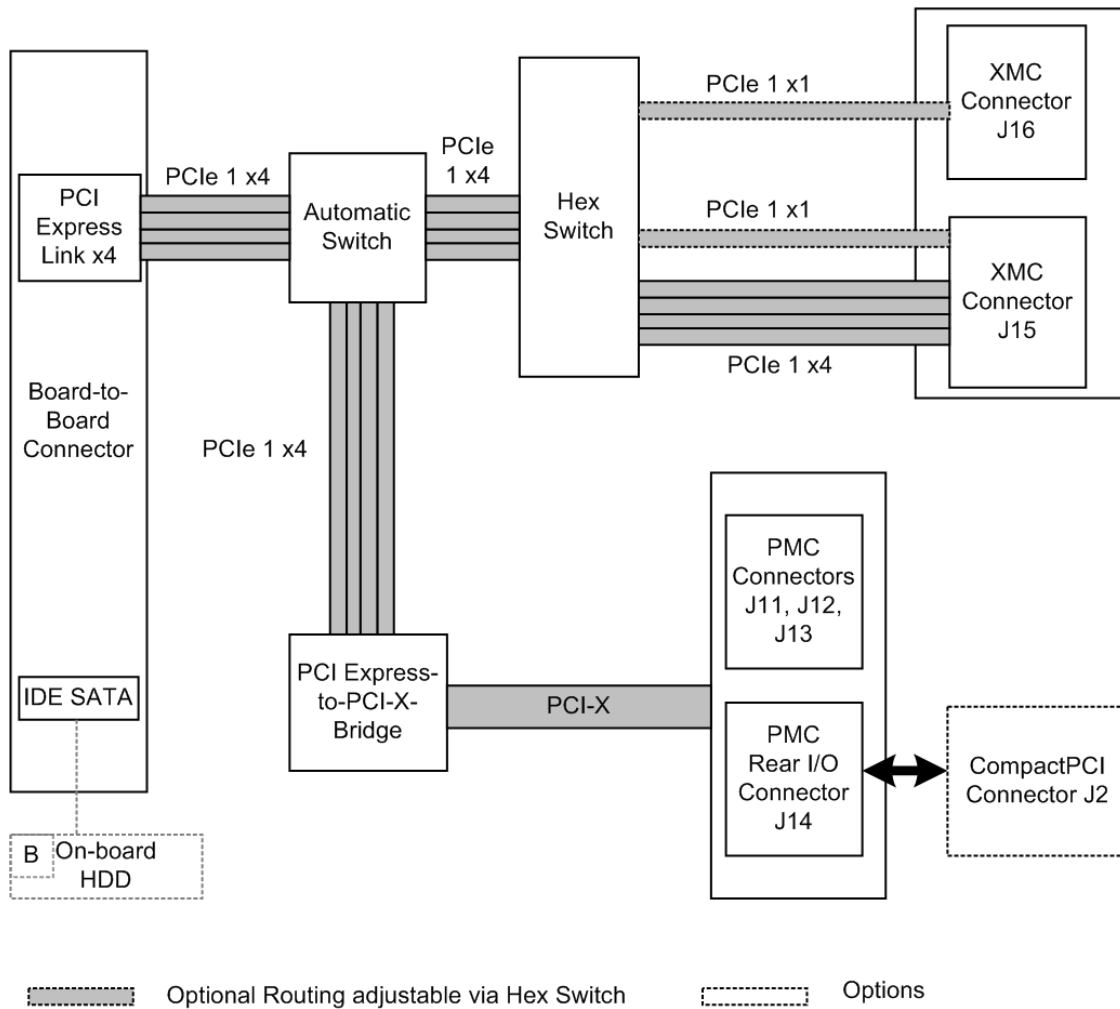
EMC

- Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

Software Support

- XMC and PMC drivers as supported
- For more information on supported operating system versions and drivers see Software.

Diagram



Configuration & Options

Standard Configurations

Article No.	Interfaces	Mass Storage	Height	Operation Temperature
02F605-00	1 XMC/PMC slot	no	4 HP	-40..+85°C

Options

Mass Storage

- Serial IDE (SATA)
 - One port for on-board 2.5" hard-disk drive
 - Transfer rates up to 150MB/s (depends on hard disk)
 - RAID level 0/1 support (depends on CPU board)

PMC

- PMC rear I/O via CompactPCI® connector J2 (only in 32-bit backplanes)

Mechanical Specifications

- 8HP

Please note that some of these options may only be available for large volumes. Please ask our sales staff for more information.

Ordering Information

Standard Hardware

02F605-00 1 XMC or PMC slot, for F14 and compatible SBCs, -40..+85°C with qualified components

Documentation

20F605-00 F605 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F605 online data sheet under » www.men.de.

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