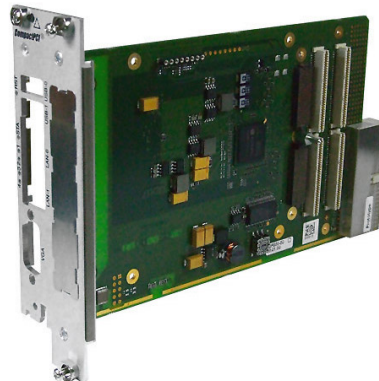


F605 – 3U CompactPCI® Side Card XMC/PMC

- 4 HP extension for 3U Intel® SBCs F15, F17, F18, F19P
- 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



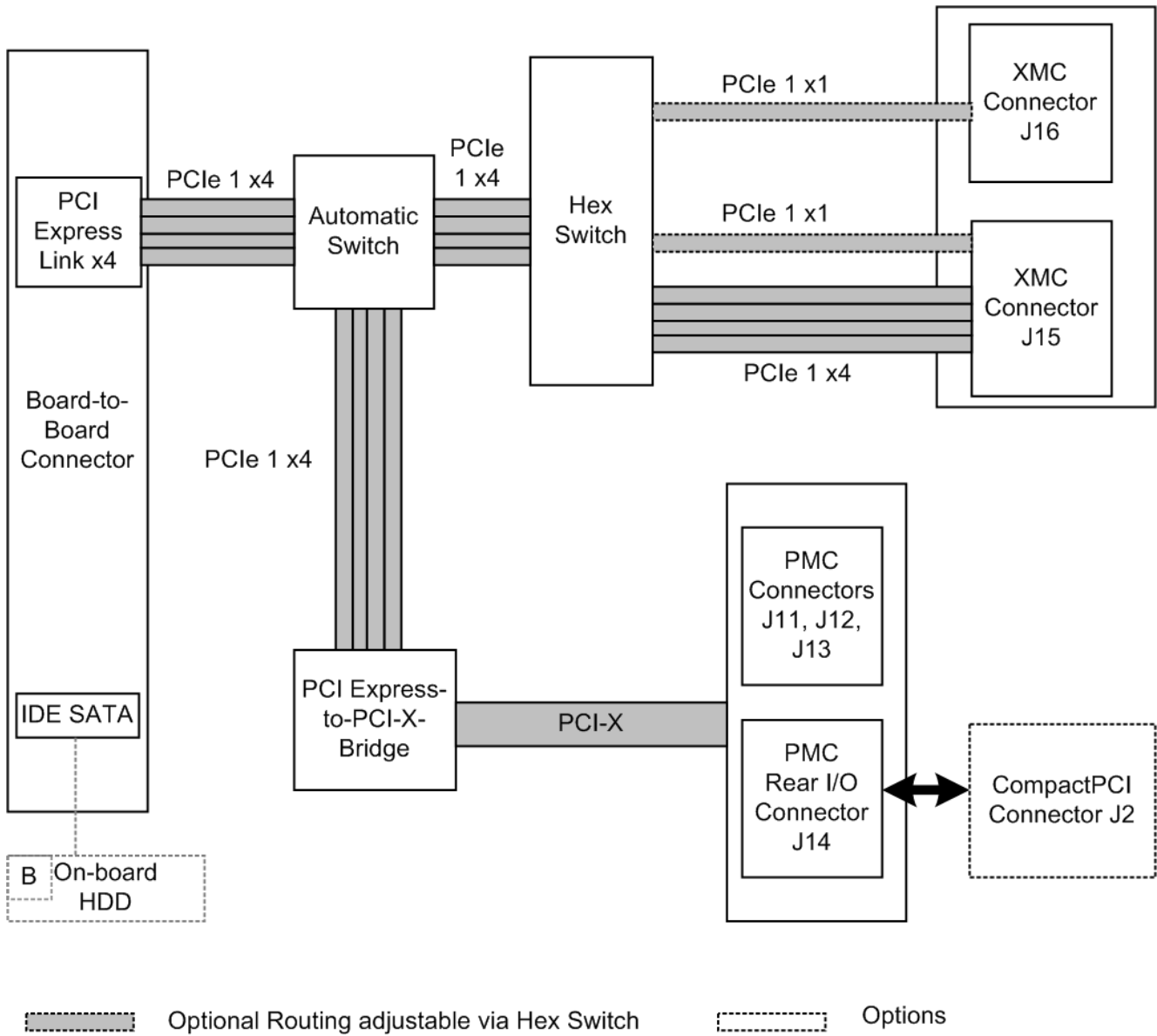
The F605 is a 4HP XMC or alternatively PMC extension card for 3U Intel® based CompactPCI® single-board computers F15, F17, F18 and F19P.

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.

Diagram



Technical Data

XMC Slot	<ul style="list-style-type: none"> ■ Via one PCI Express® link with four lanes from the side-card connector ■ Compliant with XMC standard VITA 42.3-2006 ■ Two configurations adjustable via hex switch <ul style="list-style-type: none"> □ One PCI Express® link with four lanes on J15 or □ Two links with one lane each on J15 and J16
PMC Slot	<ul style="list-style-type: none"> ■ Via PCI Express® to PCI-X Bridge <ul style="list-style-type: none"> □ 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	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: <ul style="list-style-type: none"> □ +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: 982,267h @ 40°C according to IEC/TR 62380 (RDF 2000)
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: conforming to CompactPCI® specification for 3U boards ■ Mountable on right side of the CPU ■ Weight: 144g (without XMC/PMC)
Environmental Specifications	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ -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	<ul style="list-style-type: none"> ■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC	<ul style="list-style-type: none"> ■ Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)
Software Support	<ul style="list-style-type: none"> ■ XMC and PMC drivers as supported

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	<ul style="list-style-type: none"> ■ Serial ATA (SATA) <ul style="list-style-type: none"> □ One port for onboard 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	<ul style="list-style-type: none"> ■ PMC rear I/O via CompactPCI® connector J2 (only in 32-bit backplanes)
Mechanical Specifications	<ul style="list-style-type: none"> ■ 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 F605 Models	02F605-00	1 XMC or PMC slot, for F14 and compatible SBCs, -40..+85°C with qualified components
Related Hardware	15P602-00	Quad Gigabit Ethernet interface, 2 XMC connectors, 1x4 PCIe® link on each XMC connector, 0..+55°C
Miscellaneous Accessories	05P000-01	25 mounting screw sets to fix PMC/XMC modules on carrier boards
Documentation		Compare Chart 3U CompactPCI® / PlusIO CPU cards » Download Compare Chart 3U CompactPCI® / PlusIO peripheral cards » Download Compare Chart 3U CompactPCI® / PlusIO extension cards » Download 20F605-00 F605 User Manual

Contact Information

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 3-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901

info@men.de
www.men.de

France

MEN Mikro Elektronik SA
18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33 (0) 450-955-312
Fax +33 (0) 450-955-211

info@men-france.fr
www.men-france.fr

USA

MEN Micro Inc.
860 Penllyn Blue Bell Pike
Blue Bell, PA 19422
Phone (215) 542-9575
Fax (215) 542-9577

sales@menmicro.com
www.menmicro.com

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