

G213 – 3U CompactPCI® Serial XMC/PMC Carrier

- 1 XMC slot (PCIe® 2 x4 links)
- or 1 PMC slot (32/64 bits, 33/66/133 MHz, PCI-X)
- -40 to +85°C screened
- PICMG CPCI-S.0 CompactPCI® Serial peripheral card

The G213 is a universal 3U XMC or PMC carrier board for I/O with high speed requirements in a CompactPCI® Serial environment. It allows to add I/O functions to a CompactPCI® Serial or hybrid system in a flexible way.

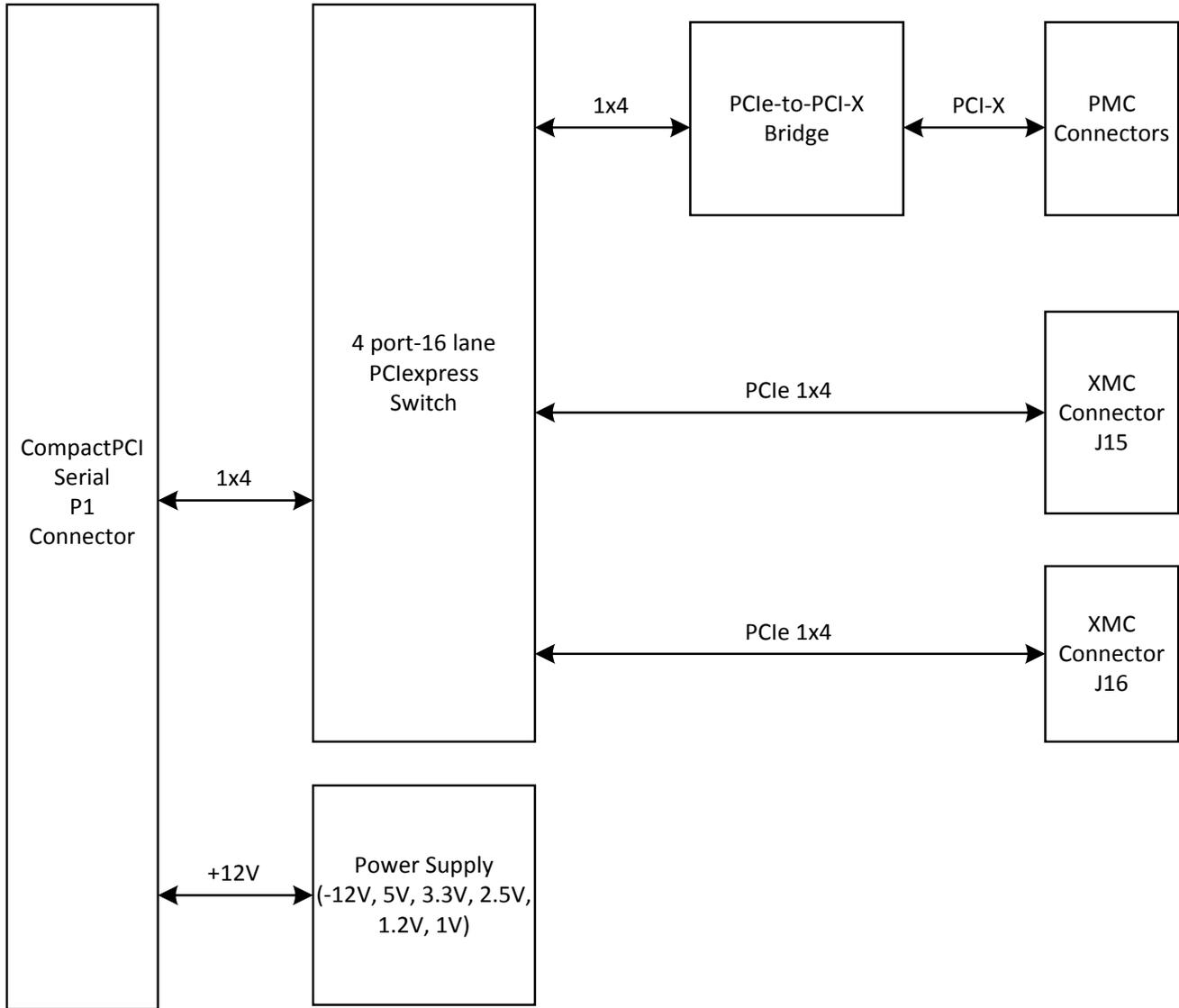
The G213 offers instant access to the already existing high-speed XMC modules on the market as well as to the huge range of legacy PMC modules of all different

speed types. It supports efficient modular system extension with I/O that reaches from typical computer functions like communication or graphics up to the whole world of industrial functions with analog and binary I/O, measurement, instrumentation, motion control, or fieldbus interfaces.

The G213 is screened for -40 to +85°C operation temperature and prepared for conformal coating in order to be used also in harsh and mobile environments. The final environmental qualification depends on the respective cards used on the carrier.



Diagram



Technical Data

XMC Slot	<ul style="list-style-type: none"> ■ Compliant with XMC standard VITA 42.3-2006 ■ Two PCI Express® links with four lanes 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
CompactPCI® Serial	<ul style="list-style-type: none"> ■ Compliance with CompactPCI® Serial PICMG CPCI-S.0 Specification ■ Peripheral slot ■ Host interface: One PCI Express® x1 link <ul style="list-style-type: none"> □ PCIe® 1.1 support □ Data rate up to 250 MB/s in each direction (2.5 Gbit/s per lane)
Electrical Specifications	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: <ul style="list-style-type: none"> □ +12V (-10%/+10%), < 400 mA
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: conforming to CompactPCI® Serial specification for 3U boards ■ Front panel: 4HP with ejector ■ Weight: 120g (without mezzanine card)
Environmental Specifications	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ -40..+85°C (screened) □ Airflow: min. 1.0 m/s ■ 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): 2g/10..150Hz ■ Conformal coating on request
MTBF	<ul style="list-style-type: none"> ■ MTBF: 775,657h @ 40°C according to IEC/TR 62380 (RDF 2000)
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

Options

Cooling Concept

- Also available with conduction cooling in MEN CCA frame

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 G213 Models	02G213-00	PMC/XMC carrier board, -40..+85°C screened
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® Serial CPU and I/O cards » Download Compare Chart 3U CompactPCI® / PlusIO CPU cards » Download 20G213-00 G213 User Manual

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