

F207 – 3U CompactPCI® PCI-104 Carrier Board

- 1 PCI-104 slot
- For stacking of up to 4 PCI-104 modules
- 8 HP CompactPCI® with one PCI-104 module
- PCI-to-PCI bridge
- -40 to +85°C with qualified components

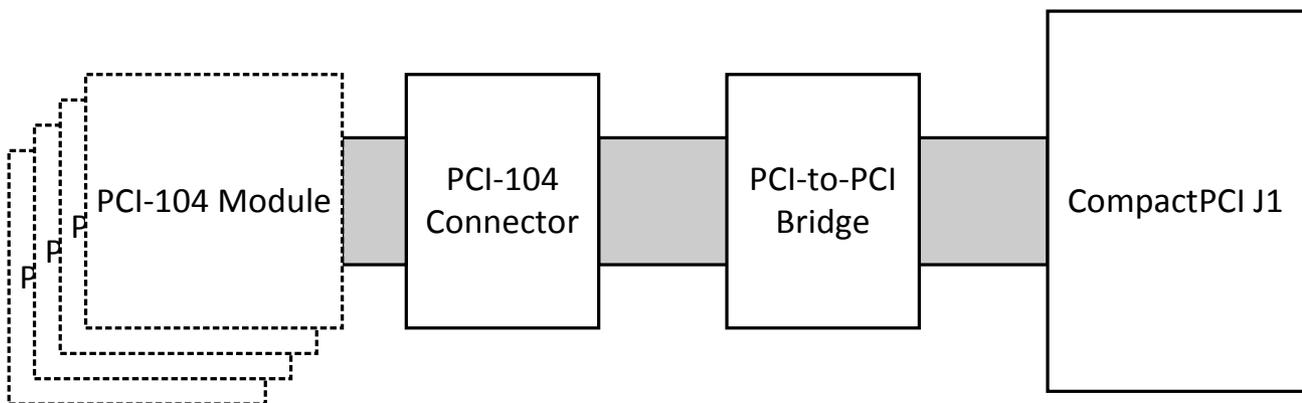


The F207 is a 3U CompactPCI® bus card which provides a PCI-104 interface supporting up to four PCI-104 extension boards. An on-board PCI-to-PCI bridge provides a 32-bit PCI interface at the PCI-104 connector and a 32-bit/33-MHz interface to the CompactPCI® bus. V(I/O) voltage is 3.3V on the local bus (5V on request) and 3.3V or 5V on CompactPCI®.

Two different versions of the F207 offer two different connector positions where a PCI-104 module can be placed. The standard version supports the typical stacking method of PCI-104 devices and needs more than one slot of space in a CompactPCI® system. Another version allows face-to-face assembly.

The F207 is fully compliant with railway standard EN 50155. For example, all components are specified for an operation temperature of -40 to +85°C.

Diagram



Technical Data

PCI-104	<ul style="list-style-type: none"> ■ One slot for PCI-104 ■ Up to four stacked PCI-104 modules ■ 8HP solution with one PCI-104 module mounted <ul style="list-style-type: none"> □ Second front panel as needed (filler panel or with connector cut-outs)
Peripheral Connections	<ul style="list-style-type: none"> ■ Via front panel
Local PCI Bus	<ul style="list-style-type: none"> ■ 32-bit/33-MHz, 3.3V or 5V (on request) V(I/O) ■ Compliant with PCI Specification 2.2
CompactPCI® Bus	<ul style="list-style-type: none"> ■ Compliance with CompactPCI® Core Specification PICMG 2.0 R3.0 ■ Peripheral slot ■ Only one slot required on 3U CompactPCI® bus ■ PCI2050 PCI-to-PCI bridge <ul style="list-style-type: none"> □ Max. clock frequency 33MHz □ 32-bit/33-MHz PCI-to-PCI bridge ■ V(I/O): +3.3V or +5V (Universal Board)
Electrical Specifications	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: <ul style="list-style-type: none"> □ +5V (-3%/+5%), 40mA max. (without PCI-104 module) □ +3.3V (-3%/+5%), 60mA max. (without PCI-104 module)
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: conforming to CompactPCI® specification for 3U boards ■ Front panel: aluminum with 1 handle ■ Weight: 170g
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): 2g/10..150Hz ■ Conformal coating on request
MTBF	<ul style="list-style-type: none"> ■ 2,006,823h @ 40°C (derived from MIL-HDBK-217F)
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"> ■ PCI-104 drivers as supported

Configuration & Options

Standard Configurations

Article No.	PCI-104	Front Panel	Operation Temperature
02F207-00	Stacked	8HP	-40..+85°C

Options

PCI-104 Slot	<ul style="list-style-type: none"> One PCI-104 module mounted "face-to-face" instead of PCI-104 stacking 4HP solution with one PCI-104 module mounted (single-slot) Only for PCI-104 modules that have a modified or no PCI-104 connector on the bottom side, because of height restriction to 4HP
V(I/O) on Local Bus	<ul style="list-style-type: none"> 5V instead of 3.3V
Cooling Concept	<ul style="list-style-type: none"> 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 F207 Models	02F207-00	F207, CompactPCI® 3U, 2-slot carrier board for 1 PCI-104 module (slot 1 = closed front panel mounted, slot 2 = to be chosen from accessory list), temperature range -40..+85°C qualified
Miscellaneous Accessories	0502-0001	3U front panel kit with three cut-outs (e.g. for SA-Adapters™), with covers for two cut-outs (cables to be ordered separately)
Documentation		Compare Chart 3U CompactPCI® / PlusIO CPU cards » Download Compare Chart 3U CompactPCI® / PlusIO peripheral cards » Download 20F207-00 F207 User Manual

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