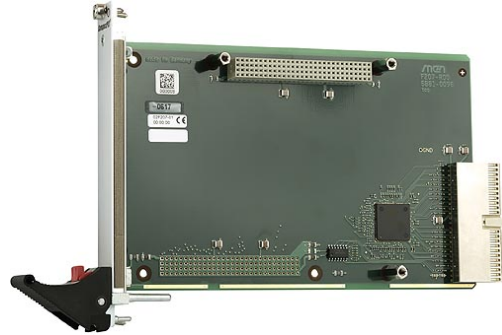


# F207 – 3U CompactPCI® PCI-104 Carrier Board

- 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

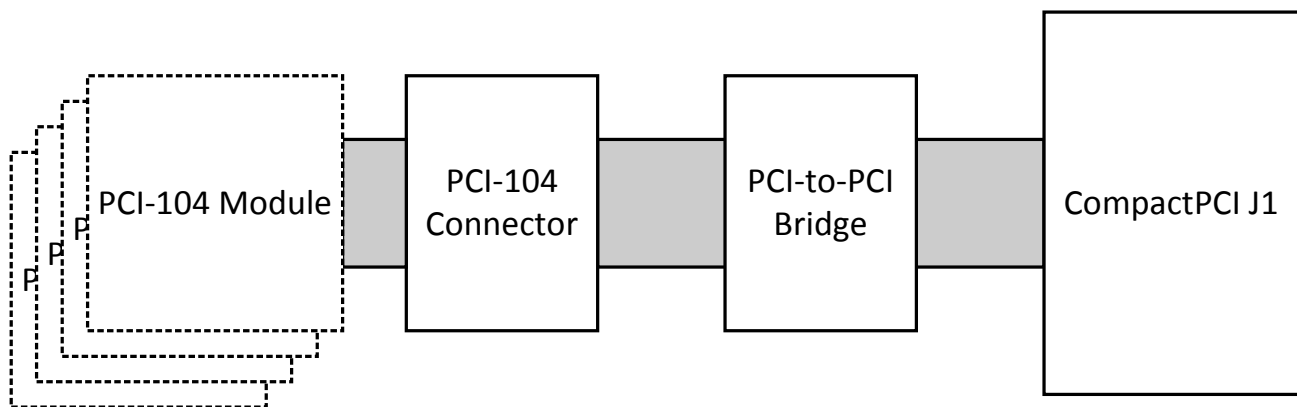


The F207 is a 3U CompactPCI® bus card which provides a PCI-104 interface supporting up to four PCI-104 extension boards. An on-board PCI-to-PCI bridge provides a 32-bit PCI interface at the PCI-104 connector and a 32-bit/33-MHz interface to the CompactPCI® bus. V(I/O) voltage is 3.3V on the local bus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

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCI-104</b>                      | <ul style="list-style-type: none"> <li>■ One slot for PCI-104</li> <li>■ Up to four stacked PCI-104 modules</li> <li>■ 8HP solution with one PCI-104 module mounted <ul style="list-style-type: none"> <li>□ Second front panel as needed (filler panel or with connector cut-outs)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                  |
| <b>Peripheral Connections</b>       | <ul style="list-style-type: none"> <li>■ Via front panel</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Local PCI Bus</b>                | <ul style="list-style-type: none"> <li>■ 32-bit/33-MHz, 3.3V or 5V (on request) V(I/O)</li> <li>■ Compliant with PCI Specification 2.2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>CompactPCI® Bus</b>              | <ul style="list-style-type: none"> <li>■ Compliance with CompactPCI® Core Specification PICMG 2.0 R3.0</li> <li>■ Peripheral slot</li> <li>■ Only one slot required on 3U CompactPCI® bus</li> <li>■ PCI2050 PCI-to-PCI bridge <ul style="list-style-type: none"> <li>□ Max. clock frequency 33MHz</li> <li>□ 32-bit/33-MHz PCI-to-PCI bridge</li> </ul> </li> <li>■ V(I/O): +3.3V or +5V (Universal Board)</li> </ul>                                                                                                                                      |
| <b>Electrical Specifications</b>    | <ul style="list-style-type: none"> <li>■ Supply voltage/power consumption: <ul style="list-style-type: none"> <li>□ +5V (-3%/+5%), 40mA max. (without PCI-104 module)</li> <li>□ +3.3V (-3%/+5%), 60mA max. (without PCI-104 module)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                 |
| <b>Mechanical Specifications</b>    | <ul style="list-style-type: none"> <li>■ Dimensions: conforming to CompactPCI® specification for 3U boards</li> <li>■ Front panel: aluminum with 1 handle</li> <li>■ Weight: 170g</li> </ul>                                                                                                                                                                                                                                                                                                                                                                |
| <b>Environmental Specifications</b> | <ul style="list-style-type: none"> <li>■ Temperature range (operation): <ul style="list-style-type: none"> <li>□ -40..+85°C</li> <li>□ Airflow: min. 10m³/h</li> </ul> </li> <li>■ Temperature range (storage): -40..+85°C</li> <li>■ Relative humidity (operation): max. 95% non-condensing</li> <li>■ Relative humidity (storage): max. 95% non-condensing</li> <li>■ Altitude: -300m to + 3,000m</li> <li>■ Shock: 15g/11ms</li> <li>■ Bump: 10g/16ms</li> <li>■ Vibration (sinusoidal): 2g/10..150Hz</li> <li>■ Conformal coating on request</li> </ul> |
| <b>MTBF</b>                         | <ul style="list-style-type: none"> <li>■ 2,006,823h @ 40°C (derived from MIL-HDBK-217F)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Safety</b>                       | <ul style="list-style-type: none"> <li>■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>EMC</b>                          | <ul style="list-style-type: none"> <li>■ Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Software Support</b>             | <ul style="list-style-type: none"> <li>■ PCI-104 drivers as supported</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Configuration & Options

### Standard Configurations

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

### Options

|                            |                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCI-104 Slot</b>        | <ul style="list-style-type: none"> <li>One PCI-104 module mounted "face-to-face" instead of PCI-104 stacking</li> <li>4HP solution with one PCI-104 module mounted (single-slot)</li> <li>Only for PCI-104 modules that have a modified or no PCI-104 connector on the bottom side, because of height restriction to 4HP</li> </ul> |
| <b>V(I/O) on Local Bus</b> | <ul style="list-style-type: none"> <li>5V instead of 3.3V</li> </ul>                                                                                                                                                                                                                                                                |
| <b>Cooling Concept</b>     | <ul style="list-style-type: none"> <li>Also available with conduction cooling in MEN CCA frame</li> </ul>                                                                                                                                                                                                                           |

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

## Ordering Information

|                                  |                                                                                   |                                                                                                                                                                                          |
|----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard F207 Models</b>      | <b>02F207-00</b>                                                                  | 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 |
| <b>Miscellaneous Accessories</b> | <b>0502-0001</b>                                                                  | 3U front panel kit with three cut-outs (e.g. for SA-Adapters™), with covers for two cut-outs (cables to be ordered separately)                                                           |
| <b>Documentation</b>             | Compare Chart 3U CompactPCI® / PlusIO CPU cards » <a href="#">Download</a>        |                                                                                                                                                                                          |
|                                  | Compare Chart 3U CompactPCI® / PlusIO peripheral cards » <a href="#">Download</a> |                                                                                                                                                                                          |
|                                  | <b>20F207-00</b>                                                                  | F207 User Manual                                                                                                                                                                         |

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