

G201 – 3U CompactPCI® Serial USB 3.0 Interface

- 4 USB 3.0 host interfaces
- Data rate up to 5 Gbit/s per direction per port
- -40 to +85°C screened
- PICMG CPCI-S.0 CompactPCI® Serial peripheral card

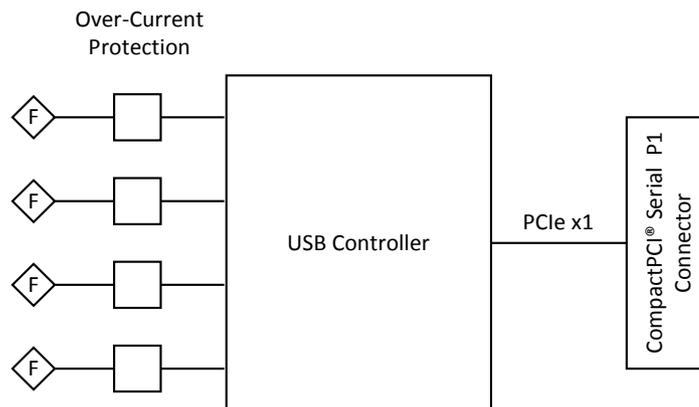


The G201 is a CompactPCI® Serial peripheral board offering four USB 3.0 host interfaces with a data rate of up to 5 Gbit/s per direction per port (2.28 Gbit/s measured). It can be used in combination with a CompactPCI® Serial or CompactPCI® PlusIO CPU board in a CompactPCI® Serial or hybrid system. It is

especially suited for connection of external data storage media or devices with high data transfer rate requirements, e.g. high-speed video cameras.

The 4HP single Eurocard provides four USB 3.0 Standard-A connectors at the front panel. The interfaces are controlled by an xHCI controller which is connected to the backplane via a PCI Express® x1 link. The G201 is screened for extended operating temperature and prepared for conformal coating for use in harsh and mobile environments.

Diagram



Technical Data

USB Interfaces	<ul style="list-style-type: none"> ■ Four USB 3.0 host ports ■ Standard-A connectors at front panel ■ Data rate up to 5 Gbit/s per direction per port (2.28 Gbit/s measured)
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® 2.1 support □ Data rate up to 500 MB/s in each direction (5 Gbit/s per lane)
Electrical Specifications	<ul style="list-style-type: none"> ■ Supply voltage/power consumption: <ul style="list-style-type: none"> □ +12V (-5%/+5%), 1 W typ., max. 1.8 W without external load, max. 28 W with 4x 1 A (25 W) load on 5 V USB ports
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: conforming to CompactPCI® Serial specification for 3U boards ■ Front panel: 4 HP with ejector ■ Weight: 116 g (w/o heat sink)
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: -300 m to +3000 m ■ Shock: 50 m/s², 30 ms (EN 61373) ■ Vibration (function): 1 m/s², 5 Hz - 150 Hz (EN 61373) ■ Vibration (lifetime): 7.9 m/s², 5 Hz - 150 Hz (EN 61373) ■ Conformal coating on request
MTBF	<ul style="list-style-type: none"> ■ 2 455 612 h @ 40°C according to IEC/TR 62380 (RDF 2000)
Safety	<ul style="list-style-type: none"> ■ Flammability <ul style="list-style-type: none"> □ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers ■ Electrical Safety <ul style="list-style-type: none"> □ Information technology equipment test according to EN 60950
EMC	<ul style="list-style-type: none"> ■ Conforming to EN 55022 (radio disturbance), IEC 61000-4-2 (ESD), IEC 61000-4-3 (electromagnetic field immunity)
Software Support	<ul style="list-style-type: none"> ■ Windows® ■ Linux (kernel versions > 2.6.32) ■ For more information on supported operating system versions and drivers see Downloads.

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 G201 Models	02G201-00	4 USB 3.0 interfaces, -40..+85°C screened
Software: Windows®	This product is designed to work under Windows®. See below for potentially available separate software packages from MEN.	
	13T030-70	Windows® 7 32-bit/64-bit USB 3.0 driver (Texas Instruments) for G201
For operating systems not mentioned here contact MEN sales .		
Documentation	Compare Chart 3U CompactPCI® Serial CPU and I/O cards » Download	
	Compare Chart 3U CompactPCI® / PlusIO CPU cards » Download	
	20G201-00	G201 User Manual

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