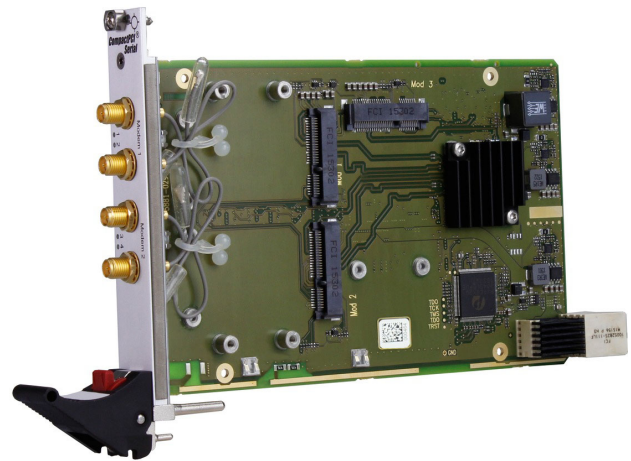


WIRELESS NETWORK BOARD FOR 2 PCIE AND 10 MICRO-SIM CARDS

- 2 PCI Express Mini Card slots for LTE, UMTS, GSM, HSPA communication
- 2 external antennas per module (reverse SMA)
- 1 PCI Express Mini Card slot for WLAN, GPS, virtual SIM card, audio codec
- 1 external antenna optional
- 10 microSIM card slots
- Software tool for switching SIM cards and remote power up/down of modems
- -40 °C to +85 °C, conformal coating
- PICMG CPCI-S.0 CompactPCI Serial peripheral card



The G227 is a rugged single slot CompactPCI Serial carrier board for up to three PCI Express Mini Cards. Two PCI Express Mini Card slots are by default equipped with two RP-SMA antenna connectors / cables each. Other types of antenna connectors are available on request. These slots can be used for UMTS, GSM, HSPA, LTE modems.

FIELDS OF APPLICATION

The G227 provides connectivity solutions to cellular networks by adding LTE, UMTS, GSM or other types of wireless modems.

It is intended for use in various train connectivity applications including onboard WLAN, passenger infotainment and fleet management systems. In the train communication system architecture, the G227 is typically located at the front end where it communicates directly with a cellular network. To optimize the connection and network coverage, the G227 features ten microSIM card slots.

SOFTWARE

duagon provides a user friendly software tool designed for interacting with the G227. The user is able to remotely control which microSIM cards are connected to the modems. Remote power reset is also possible for each modem and the third optional PCI Express Mini Card module.

SUITED FOR HARSH AND MOBILE ENVIRONMENT

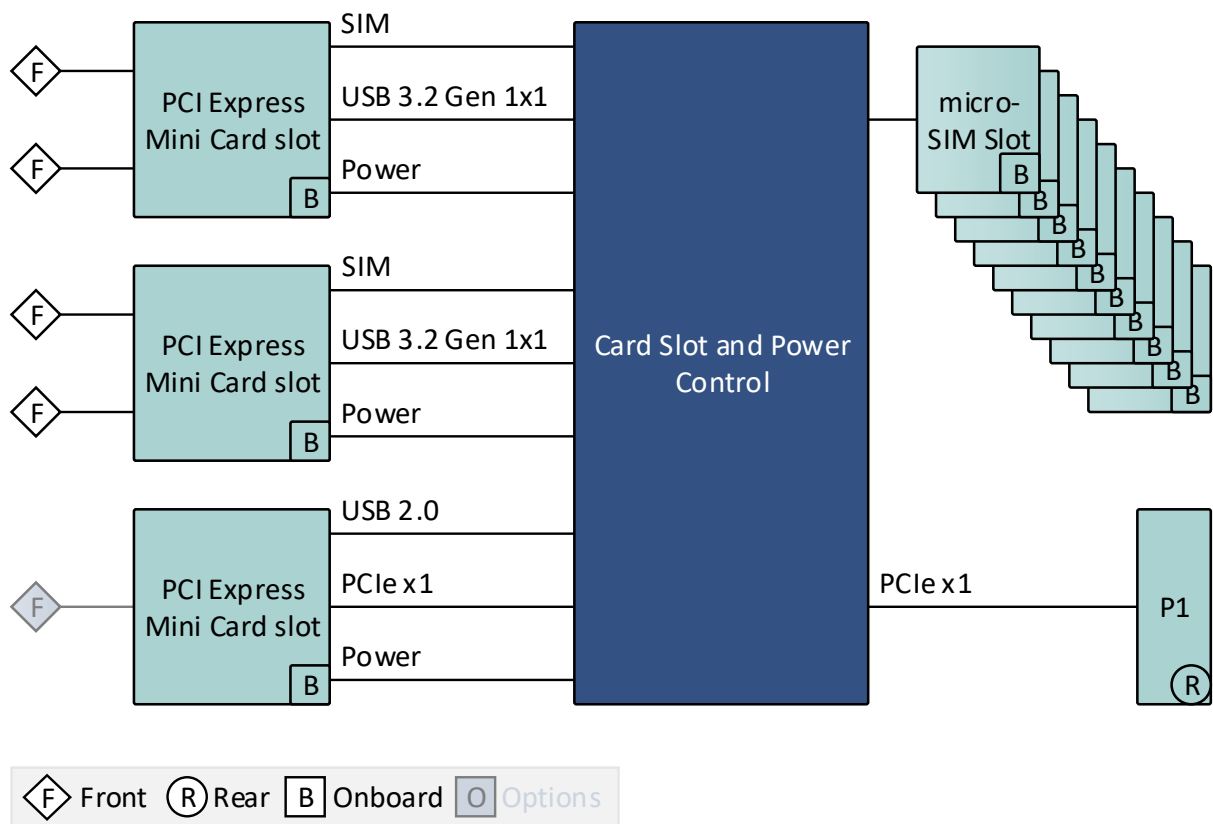
The G227 is designed for -40 to +85°C operating temperature and conformal coated in order to be used also in harsh and mobile environments. The final environmental qualification depends on the respective PCI Express Mini Cards used with the carrier.



www.duagon.com/products/g227/

DATA SHEET

G227 | DIAGRAM



G227 | TECHNICAL DATA

CARD INTERFACES

- Two PCI Express Mini Card slots (only full size)
 - USB 3.2 Gen 1x1 interface
 - For UMTS, GSM, HSPA, LTE functionality
- One PCI Express Mini Card slot (only full size)
 - USB 2.0 interface
 - PCI Express interface
 - For WLAN, GPS, GLONASS, audio, virtual SIM functionality
- 10 microSIM card holders

- Individual reset and power on/off for each PCI Express Mini Card
 - Via software
- Please note that duagon does not offer SIM cards or mobile telephony contracts

FRONT INTERFACES

- Four Reverse SMA antenna connectors or
- Five Reverse SMA antenna connectors (on request)
- Other types of antenna connectors (on request)
- Four HF cables
- One power LED and one user LED for each PCI Express Mini card



BACKPLANE STANDARD

- Compliance with CompactPCI Serial PICMG CPCI-S.0 Specification
- Peripheral slot
- Host connection: one PCI Express x1 link

ELECTRICAL SPECIFICATIONS

- Supply voltage:
 - +12 V (-5%/+5%)
- Power consumption:
 - Depending on plugged PCI Express Mini card
 - 2.5 W without PCIe Express Mini cards

MECHANICAL SPECIFICATIONS

- Dimensions:
 - 3U, 4 HP
- Weight: 172 g (without cards)

ENVIRONMENTAL SPECIFICATIONS

- Temperature range (operation):
 - -40°C to +85°C (only carrier, depending on configuration)
 - Airflow: min. 1.5 m/s
- Temperature range (storage): -40°C to +85°C
- Humidity (operation): EN 60068-2-30, EN 50155
- Shock: EN 50155
- Vibration: EN 50155

MTBF

- MTBF: 1 722 735 h @ 40°C according to IEC/TR 62380 (RDF 2000)

SAFETY

- Electrical Safety
 - EN 50155
 - EN 50153
- Flammability (PCBs)
 - UL 94 V-0
- Fire Protection
 - EN 45545-2

EMC

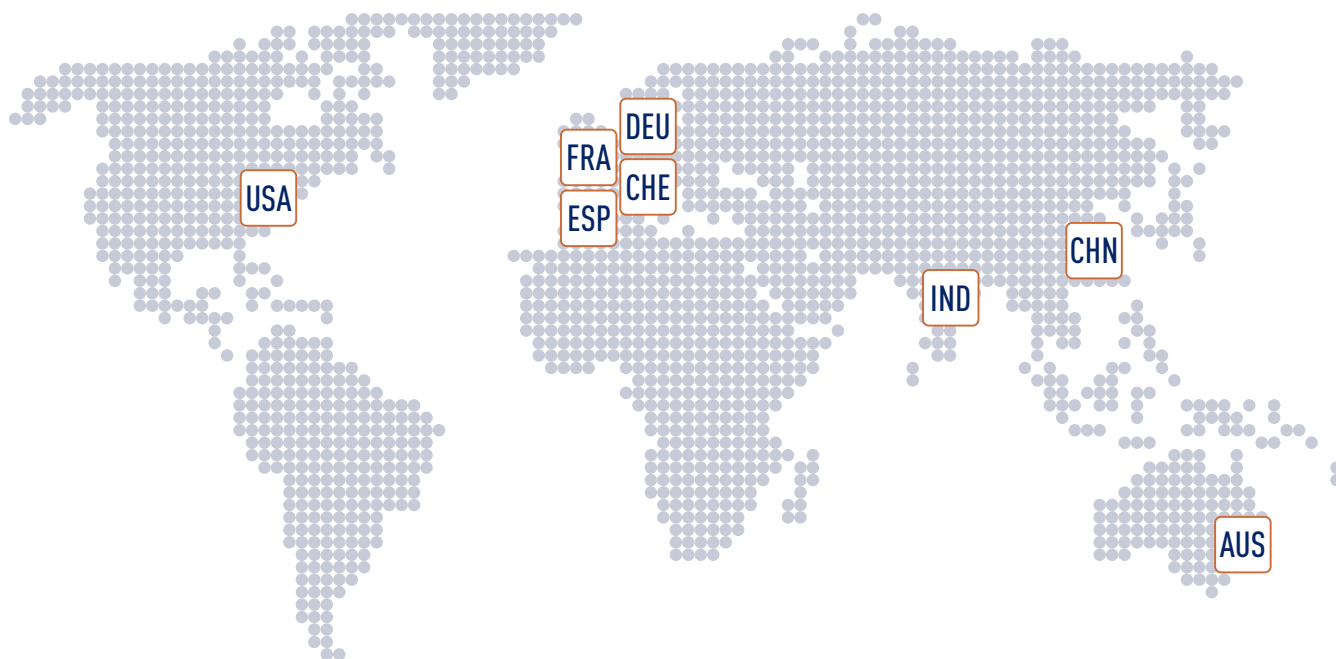
- Radiated Emission: EN 50121-3-2
- Immunity: EN 50121-3-2

SOFTWARE SUPPORT

- Windows
- Linux
- Further Resources
 - See the product User Manual for details on software support: www.duagon.com/products/g227/#doc
 - See section Software on the product web page for available packages:
www.duagon.com/products/g227/#downl



LEADING THE EMBEDDED FUTURE



duagon | WORLDWIDE

duagon has a global presence with support and sales representatives across 8 countries. With three decentralized engineering and production sites, our customers take advantage of the added competence and flexibility.

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