

DNA-CAR-550 (for the UEIPAC series)

PCI Express Mini Card module carrier

- Allows UEIPAC direct connection to CELL/WIFI networks
- Allows UEIPAC direct connection to GPS antennas.
- Supports CELL/WIFI/GPS cards from many vendors
- Standard Mini Card USB interface
- Connects internally to UEIPAC USB port
- 2 external RF/Coax connectors
- External access for carrier SIM/UIM card
- Includes replacement faceplate

10-Year
Availability
Guarantee



[Antennas and UEIPAC cubes not included]

General Description:

The DNA-CAR-550 provides the capability to interface an industry standard PCI Express Mini Card to UEI's GigE based, UEIPAC series Cubes. The DNA-CAR-550 is compatible with the UEIPAC 300-1G and UEIPAC 600-1G models.

The DNA-CAR-550 provides a standard PCI Express Mini Card slot that is compatible with a wide variety of off-the-shelf Cell, WIFI and other communications cards. In addition, many of the Cell cards also provide a direct GPS interface. Note that the DNA-CAR-550 implements the USB interface of the PCI Express Mini Card architecture, but not the PCIe interface. Only Mini Cards based on the USB interface are supported by the DNA-CAR-550.

The Mini Card USB connection is connected directly to the UEIPAC's USB port. Software support of the Mini Card will be supplied by the Mini Card's manufacturer. Since the UEIPAC uses a standard Linux operating system, high quality drivers will be available from most Mini Card suppliers.

The DNA-CAR-550 also provides a slot for standard SIM/UIM cards provided by the various cell/CDMA/GSM network suppliers. This card may be inserted through the front panel of the DNA-CAR-550 allowing service to be added or modified without opening the cube or RACK.

External RF connections are provided by two standard SMA series connectors. These can be used to connect to various antennas such as those required by Cell, Wifi or GPS equipment. The DNA-CAR-550 may also be ordered with RPSMA connectors if desired.

Four LED annunciator lights are provided. The first is a simple power indicator which is lit any time power is provided to the board. The remaining three are connected to the three LED indicator control pins that are provided on the standard PCI Express Mini Card interface.

The DNA-CAR-550 provides a new level of system interconnectability to the UEIPAC, allowing simple and direct connection to a wide assortment of Cell/CDMA/GSM networks, WIFI networks. The board also allows direct connection to the satellite based GPS system.

Technical Specifications:

Carrier card type	PCI Express Mini Card that utilize the USB Interface
SIM/UIM card interface	Accepts standard cards from Cell carrier. May be installed from outside of chassis
Communications interface	USB 2.0
Indicator LEDs	4 provided (1 indicates power is on, 3 are controlled by PCI Express Mini Card)
RF connectors	2
RF connector type	Standard SMA connector Optional RPSMA connectors also available
Power dissipation	< 1 W, not including PCI Express Card
Operating Temp. Range	Tested -40 to +85 °C
Operating Humidity	95%, non-condensing
Vibration IEC 60068-2-6	5 g, 10-500 Hz, sinusoidal
IEC 60068-2-64	5 g (rms), 10-500 Hz, broad-band random
Shock IEC 60068-2-27	50 g, 3 ms half sine, 18 shocks @ 6 orientations 30 g, 11 ms half sine, 18 shocks @ 6 orientations
MTBF	300,000 hours

Block Diagram:

