Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

# CradlePoint IBR1700-600M-B Cat-11 Modem WiFi Router

MPN
IBR1700-600M-B

**Description**

Cradlepoint's IBR1700 series modems are a true industrial grade IP64 4G LTE router designed for extraordinarily high performance data connections in

challenging environments.

The IBR1700-600M-AP model employs a Category 11 LTE-Advanced modem module capable of 600 Mb/s DL and 75 Mb/s UL data rates. An optional second modem card can be implemented to provide failover and load balancing between two mobile network operators.

IBR1700 models have tri-band 802.11ac Wave 2 WiFi, with all the advanced enterprise features expected of a Cradlepoint device.

- Precision GPS with dead-reckoning enables advanced location-based applications
- OBD-II support with accessory cables advanced location-based
- Extensibility with accessory cable for vehicle health and diagnostics reporting
- Extensibility with GPIOs, NetCloud SDK and API for customisable solutions
- Unified edge security including multi-zone firewalls, IDS/IPS, and Internet security

Read More

Cradlepoint COR IBR1700 mobile routers are sold as part of an all-inclusive mobile networking package. The NetCloud Mobile packages include:

- Ruggedized endpoints, purpose-built for mobile applications
- A NetCloud Service Plan tailored for a specific term
- 24x7 support and limited lifetime warranty



## Cradlepoint

Cradlepoint is a Boise, Idaho, company with a mission of enabling customers to Connect Beyond the limits of wired networks. We unlock the transformative power of today’s LTE and 5G cellular networks to provide an agile, reliable, and pervasive Wireless WAN edge.

Through Cradlepoint’s solutions, companies can connect sites, vehicles, mobile workforces, and IoT devices in a simple and secure way ...

Network Interfaces
Wireless Interfaces

Cellular Module
Technologies
3G UMTS, 4G LTE
Chipset/Module
Telit LM940

**4G LTE Specifications**

MIMO
2x2 MIMO
LTE Bands
B1
,
B3
,
B4
,
B5
,
B7
,
B8
,
B12
,
B13
,
B17
,
B20
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B25
,
B26
,
B28
,
B29
,
B30
,

B38
,
B40
,
B41
,
B66
DL Category
Cat 11
UL Category
Cat 5
Carrier Aggregation
3C CA
SIM Cards

| Quantity | SIM Type |
|---|---|
| 2 | Standard SIM (2FF) |

Modem RF Connectors

| RF Connector Function | Quantity | RF Interface |
|---|---|---|
| Cellular | 2 | SMA Female |

WiFi Module
WiFi Chipset
Qualcomm QCA9994 WiFi
No. Radios
3
Max. Throughput
940 Mb/s
Max. Clients
100
No. Antennas
6
WiFi Radios

| Radio Name (Optional) | WiFi Standard | Frequency Bands | MIMO | Transmit Power |
|---|---|---|---|---|
| Radio 1 - 2.4 GHz | 802.11n | 2.4 GHz | 2x2 MIMO | 33.4 dBm |
| Radio 1 - 5 GHz | 802.11ac Wave 2 | 5 GHz | 2x2 MIMO | 35.8 dBm |
| Radio 2 | 802.11ac Wave 2 | 5 GHz | 4x4 MIMO | 35.8 dBm |

WiFi RF Connectors

| RF Connector Function | Quantity | RF Interface |
|---|---|---|
| WiFi | 4 | RP-SMA Female |
| WiFi 5 GHz | 2 | RP-SMA Female |

GNSS Module Technologies

BeiDou, Galileo, GLONASS, GPS

Refresh Rate

1 Hz

Device RF Interface

| RF Connector Function | Quantity | RF Interface |
|---|---|---|
| GNSS | 1 | SMA Female |

Ethernet Interfaces

| Interface | Quantity | Function | Signalling |
|---|---|---|---|
| RJ45 Copper | 4 | LAN/WAN Switchable | 100BASE-T, 1000BASE-T |
| RJ45 Copper | 1 | Dedicated WAN | 100BASE-T, 1000BASE-T |

# Physical Specification

Subtype

Cellular Modem

Min. Operating Temperature

-30 °C

Max. Operating Temperature

70 °C

Dimensions

224.3 × 190 × 44 mm

Weight

1.7 kg

Materials

Steel

Mounting

Screw / Bolt

Compliance/Certifications

ISO 9001 Quality Management

IO Interfaces

| IO Connector | Quantity | Notes |
|---|---|---|
| USB-A 2.0 | 1 | |

| IO Connector | Quantity | Notes |
|---|---|---|
| GPIO 20-Pin | 1 | 20-pin power + GPIO port |
| DE-9 Serial | 1 | Female, RS232 |
| Expansion Slot | 1 | MC400 Modular Slot for Additional Modem |

Power Specifications

Max. Consumption

24 W

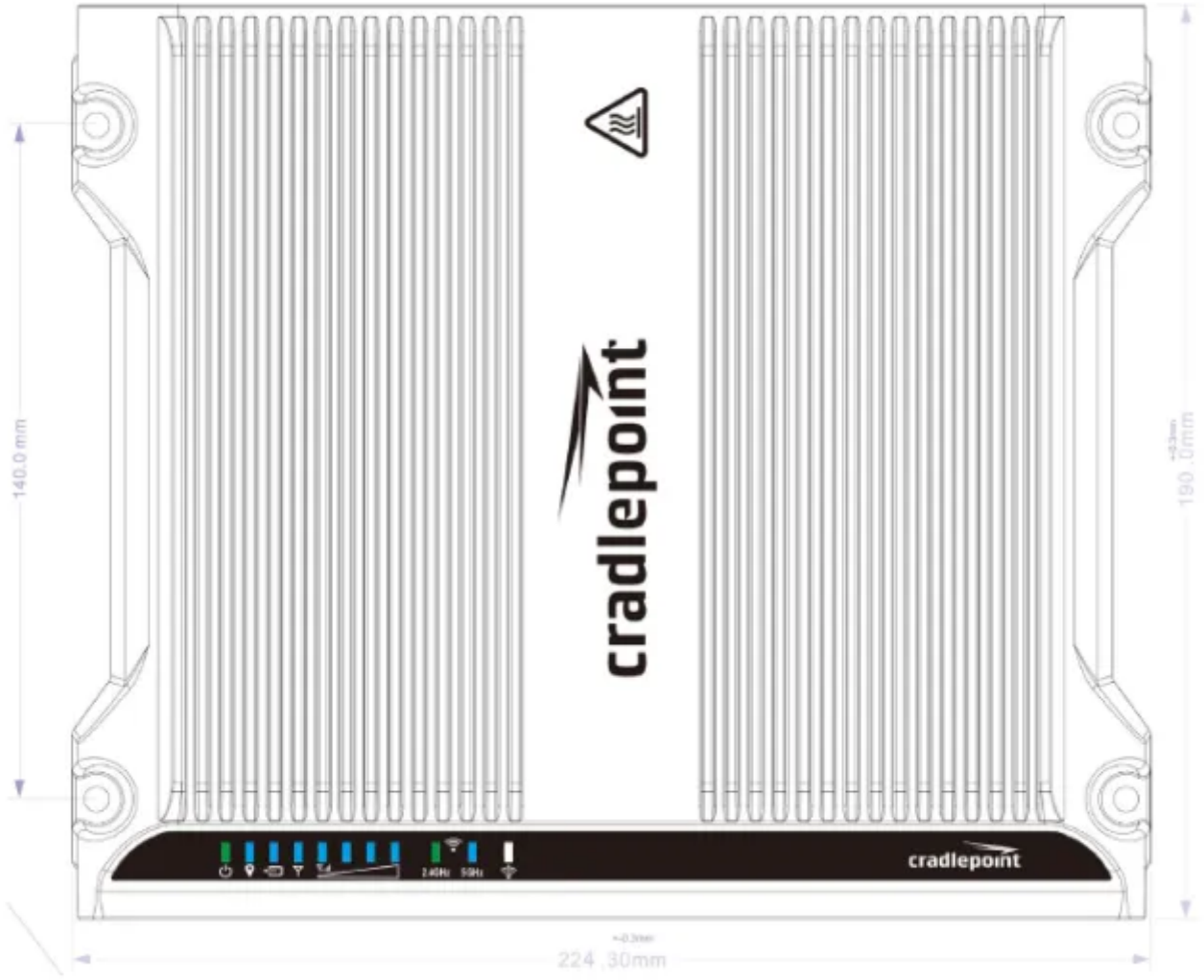
Typical Consumption

14 W

Power Interface

| Power Connector | Nominal Voltage | Min. Input Voltage | Max. Input Voltage | Voltage Type |
|---|---|---|---|---|
| Terminal Block, 4-Position | 12 V | 9 V | 36 V | DC |

Drawing




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