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# **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](#)

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[B3](#)

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[B4](#)

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[B5](#)

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[B7](#)

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[B8](#)

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[B12](#)

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[B13](#)

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[B17](#)

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[B20](#)

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[B25](#)

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[B26](#)

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[B28](#)

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[B29](#)

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[B30](#)

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[B38](#)

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[B40](#)

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[B41](#)

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[B66](#)

DL Category

Cat 11

UL Category

Cat 5

Carrier Aggregation

3C CA

SIM Cards

Quantity	SIM Type
2	<a href="#">Standard SIM (2FF)</a>

Modem RF Connectors

**RF Connector Function Quantity RF Interface**

Cellular	2	<a href="#">SMA Female</a>
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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	<a href="#">802.11n</a>	<a href="#">2.4 GHz</a>	<a href="#">2x2 MIMO</a>	33.4 dBm

Radio Name (Optional)	WiFiStandard	Frequency Bands	MIMO	Transmit Power
Radio 1 - 5 GHz	<a href="#">802.11ac Wave 2</a>	<a href="#">5 GHz</a>	<a href="#">2x2 MIMO</a>	35.8 dBm
Radio 2	<a href="#">802.11ac Wave 2</a>	<a href="#">5 GHz</a>	<a href="#">4x4 MIMO</a>	35.8 dBm

WiFi RF Connectors

RF Connector	Function	Quantity	RF Interface
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WiFi		4	<a href="#">RP-SMA Female</a>
WiFi 5 GHz		2	<a href="#">RP-SMA Female</a>

GNSS Module

Technologies

[BeiDou](#), [Galileo](#), [GLONASS](#), [GPS](#)

Refresh Rate

1 Hz

Device RF Interface

RF Connector	Function	Quantity	RF Interface
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GNSS		1	<a href="#">SMA Female</a>
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Ethernet Interfaces

Interface	Quantity	Function	Signalling
<a href="#">RJ45 Copper</a>	4	LAN/WAN Switchable	<a href="#">100BASE-T</a> , <a href="#">1000BASE-T</a>
<a href="#">RJ45 Copper</a>	1	Dedicated WAN	<a href="#">100BASE-T</a> , <a href="#">1000BASE-T</a>

## 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

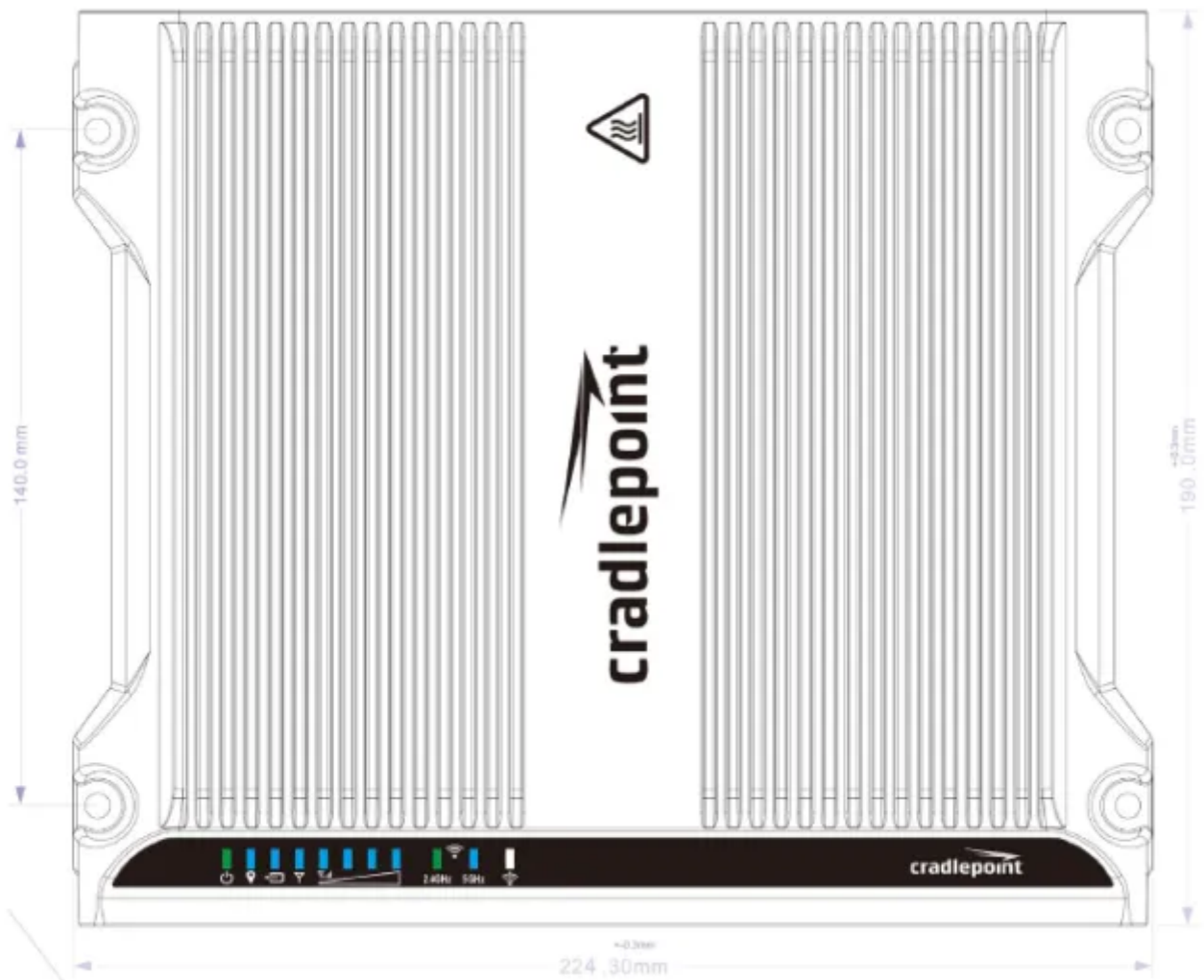
IO Connector Quantity		Notes
USB-A 2.0	1	
GPIO 20-Pin	1	20-pin power + GPIO port
DE-9 Serial	1	Female, RS232
Expansion Slot	1	MC400 Modular Slot for Additional Modem

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 Drawing	12 V	9 V	36 V	DC



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