

Cradlepoint IBR1700 Series IBR1700-1200M-B - wireless router - WWAN - Wi-Fi 5 - 3G, 4G - in-vehicle(MAA3-1700120B-EA)

Cradlepoint IBR1700 Series IBR1700-1200M-B - Wireless router - WWAN 4-port switch - 1GbE Dual Band - 3G, 4G - in-vehicle - with 3 years NetCloud Mobile Essentials + Advanced Plan



The Cradlepoint IBR1700 Series Router is a ruggedized Gigabit-Class LTE networking platform with full-featured routing, security, and Wi-Fi. It is designed for persistent connectivity across a wide range of in-vehicle solutions used by first responders such as vehicles and mobile command centers, as well as mass transit, school buses, commercial truck fleets, and near-shore vessels.

Key Selling Points

- Wireless cellular modem with a max transfer rate of 1.2 Gbps for high-speed Internet access
- Supports a wide range of LTE and WCDMA bands for global network compatibility
- Meets MIL-STD 810G, IP64, and other compliance standards for durability in harsh environments
- Includes advanced security features like WPA3 encryption and VPN support
- Features dual-band Wi-Fi with 2x2 and 4x4 MU-MIMO technology for efficient data transmission

Product Features

- Robust connectivity**
Equipped with a wireless cellular modem capable of reaching a max transfer rate of 1.2 Gbps, the Cradlepoint IBR1700 Series ensures high-speed Internet connectivity. This feature is complemented by a wide range of supported cellular bands, making it versatile for various global networks.
- Enhanced security**
The device offers comprehensive security features, including WPA3-Personal and Enterprise encryption, ensuring secure wireless communication. Additionally, it supports up to 10 concurrent VPN tunnels, providing safe and private connections for remote access.
- Durable design**
Designed to withstand harsh environments, the Cradlepoint IBR1700 Series meets multiple compliance standards, including MIL-STD 810G and IP64, ensuring reliability and durability in various operational conditions.
- Advanced networking**
With support for both wired and wireless connectivity, including 2x2 and 4x4 MU-MIMO technology, this router facilitates efficient data transmission across multiple devices. Its stateful firewall throughput of 940 Mbps and VPN throughput of 20 Mbps highlight its capability to manage large volumes of data securely.
- Comprehensive coverage**
The device's built-in GPS, Beidou, GLONASS, and Galileo support offers precise location tracking capabilities, essential for fleet management and other mobile applications. This feature, combined with the extensive cellular band support, ensures reliable service in a wide range of geographical locations.

Main Specifications

Product Description	Cradlepoint IBR1700 Series IBR1700-1200M-B - wireless router - WWAN - Wi-Fi 5 - 3G, 4G - in-vehicle
Device Type	Wireless router - wireless cellular modem - 4-port switch (integrated)
Enclosure Type	In-vehicle
Bundled Services	3 years NetCloud Mobile Essentials + Advanced Plan
Mobile Communication Protocol Generation	LTE Advanced Pro, WCDMA, DC-HSPA+ 3G, 4G

Cellular Band	LTE B1, LTE B2, LTE B3, LTE B4, LTE B5, LTE B7, LTE B8, LTE B12, LTE B13, LTE B14, LTE B17, LTE B18, LTE B19, LTE B20, LTE B25, LTE B26, LTE B28, LTE B29, LTE B30, LTE B32, LTE B66, LTE B71, LTE B38, LTE B39, LTE B40, LTE B41, LTE B42, LTE B43, LTE B46, LTE B48, WCDMA B1, WCDMA B2, WCDMA B4, WCDMA B5, WCDMA B8, WCDMA B9, WCDMA B19
WAN Ports Qty	1
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac Wave 2
Frequency Band	2.4 GHz / 5 GHz
Performance	Stateful firewall throughput: 940 Mbps VPN throughput (IPSec): 20 Mbps
Capacity	Concurrent VPN tunnels: 10 Concurrent TCP sessions: 32000 Typical client count: 30
Features	2x2 MU-MIMO technology, 4x4 MU-MIMO technology, reverse polarity protection, transient voltage protection, Ignition Sense, firewall protection, 3GPP Release 12
Compliant Standards	Wi-Fi CERTIFIED
Dimensions (WxDxH)	22.43 cm x 19 cm x 4.4 cm
Weight	1.7 kg
Localisation	European Union, South Africa, United Kingdom
Manufacturer Warranty	Limited lifetime warranty

Extended Specification

General

Device Type	Wireless router - 4-port switch (integrated)
Bundled Services	3 years NetCloud Mobile Essentials + Advanced Plan
Enclosure Type	In-vehicle
Connectivity Technology	Wired, wireless
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac Wave 2
Frequency Band	2.4 GHz / 5 GHz
Performance	Stateful firewall throughput: 940 Mbps VPN throughput (IPSec): 20 Mbps
Capacity	Concurrent VPN tunnels: 10 Concurrent TCP sessions: 32000 Typical client count: 30
Encryption Algorithm	WPA-Personal, WPA2-Personal, WPA3-Personal, WPA2-Enterprise, WPA3-Enterprise, WEP
Features	2x2 MU-MIMO technology, 4x4 MU-MIMO technology, reverse polarity protection, transient voltage protection, Ignition Sense, firewall protection, 3GPP Release 12
Compliant Standards	Wi-Fi CERTIFIED, IP64, ISO 7637-2, UL, cUL, CB Scheme, EN 62368-1, E Mark, WEEE, RoHS, RoHS2, CP65, MIL-STD 810G, SAE J1455
Built-in Devices	GPS, GLONASS, Beidou, Galileo
Status Indicators	Power, GPS, modem, signal strength, Wi-Fi, WAN

Expansion / Connectivity

Interfaces	WAN: 1 x 10Base-T/100Base-TX/1000Base-T - RJ-45 LAN: 4 x 10Base-T/100Base-TX/1000Base-T - RJ-45 Antenna: 4 x SMA - LTE USB 2.0: 1 x 4 pin USB Type A Peripheral: 1 x GPIO Console: 1 x RS-232 - 9 pin D-Sub (DB-9) Antenna: 1 x SMA - GPS Antenna: 6 x RP-SMA - Wi-Fi
Expansion Slots	2 Mini-SIM

Manufacturer Warranty

Service & Support	Limited warranty - lifetime
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Miscellaneous

Cables Included	1 x GPIO cable - 3 m
MTBF	286,853 hours

Localisation	European Union, South Africa, United Kingdom
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Power

Power Consumption Operational	14 Watt
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Environmental Parameters

Min Operating Temperature	-30 °C
Max Operating Temperature	70 °C
Humidity Range Operating	5 - 95%

Communications

Type	Wireless cellular modem
Mobile Communication Protocol	LTE Advanced Pro, WCDMA, DC-HSPA+
Generation	3G, 4G
Cellular Band	LTE B1, LTE B2, LTE B3, LTE B4, LTE B5, LTE B7, LTE B8, LTE B12, LTE B13, LTE B14, LTE B17, LTE B18, LTE B19, LTE B20, LTE B25, LTE B26, LTE B28, LTE B29, LTE B30, LTE B32, LTE B66, LTE B71, LTE B38, LTE B39, LTE B40, LTE B41, LTE B42, LTE B43, LTE B46, LTE B48, WCDMA B1, WCDMA B2, WCDMA B4, WCDMA B5, WCDMA B8, WCDMA B9, WCDMA B19
Max Transfer Rate	1.2 Gbps

Dimensions & Weight

Width	22.43 cm
Depth	19 cm
Height	4.4 cm
Weight	1.7 kg

Aerial

Aerial	External detachable
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Line Properties

Line Coding Format	256 QAM
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What's in the box

Cradlepoint IBR1700 Series IBR1700-1200M-B
GPIO cable - 3 m

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