



Cradlepoint IBR 1100

Ultra Reliable and Real-Time Even in Extreme Environments



The Cradlepoint IBR 1100 is a compact, ruggedized 3G/4G/LTE networking platform designed for mission-critical connectivity in the most challenging environments. Ideal for in-vehicle networks including police cars, ambulances, and mass transit, this cloud-managed solution provides organizations the ability to scale deployments quickly, and manage vehicle networks easily

in real-time. With Wi-Fi inside and outside, from guest Wi-Fi in a metro bus to Wi-Fi coverage at an outdoor sites, fleet vehicles benefit from robust dual-band Wi-Fi. The 1100 is engineered to protect against extreme temperatures, humidity, shocks, vibrations, dust, water splash, reverse polarity, and transient voltage.

KEY FEATURES

- Dual-modem dock for increased availability
- Dual-band, dual concurrent Wi-Fi offers secure, guest Wi-Fi to passengers
- Supports Ethernet (T1, DSL, Cable, MetroE), Wi-Fi as WAN, and Metro Wi-Fi
- Ignition sensing
- Supports multiple carriers
- Built-in transient and reverse polarity voltage protection
- Integrated temperature sensor



Quick Specs

Supports LTE Advanced	Yes
SIM-Based Auto-Carrier Selection	Yes
Ports (LAN / WAN)	3 / 3
Enterprise Grade Modems	Certified Embedded 3G / 4G / LTE
Wireless Broadband Technology	LTE / HSPA+ / EVDO, LTE / HSPA+
Wi-Fi	Dual-band, dual concurrent
SIM Slots	2
Dock Option	Dual-Modem Dock
Redundant Power Capable	No
GPIOs	2 + 3 with Serial to GPIO Cable
Ignition Sensing / Sleep Mode	Yes



Specifications

Security

Advanced security, VPN, and stateful firewall
Designed for PCI compliant network architectures
WAN NAT, SPI, ALG, inbound filtering of IP addresses, port blocking, service filtering (FTP, SMTP, HTTP, RPL, SNMP, DNS, ICMP, NNTP, POP3, SSH), protocol filtering, WAN ping (allow/ignore)

Physical

Housing Ruggedized for vibration, shock, dust, splash, and humidity
Weight 16.1 oz (457 g)
Dimensions 5.3 in x 4.4 in x 1.4 in (134 mm x 112 mm x 35 mm)

Environmental Limits

Standard -30 °C to 70 °C (-22 °F to 158 °F)
Storage -40 °C to 85 °C (-40 °F to 185 °F)

Power

DC Input steady state voltage range: 9–36 VDC (requires inline fuse for vehicle installations)
Power consumption
Idle Typical: 400mA@12VDC (4.8W); Worst case 800mA@12VDC (9.6W)
Tx/Rx Typical: 650mA@12VDC (7.8W); Worst case=1300mA@12VDC (15.6W)
Adapter 12VDC 2A recommended
Reverse polarity and transient voltage protection per ISO 7637-2
Ignition sensing automatic ON and time-delay OFF

Certifications

CC, CE, IC
Wi-Fi Alliance 802.11a/b/g/n certified, 802.11ac supported
Safety UL/CUL, CB Scheme, EN60950-1
Hazardous Class I, Div. 2
Materials WEEE, RoHS, RoHS-2, California Prop 65
Vehicle E-Mark, compliant with ISO 7637-2
Shock/Vibration/Humidity MIL STD 810G and SAEJ1455
Ingress Protection IP64 (includes protection from dust and splashing water)
Vehicle E-Mark, compliant with ISO 7637-2
Telecom PTCRB/CTIA, GCF-CC



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