

# CradlePoint COR

## INTEGRATED BROADBAND ROUTER

IBR600 Series - Hardened for Machine-to-Machine



### THE HEART OF YOUR M2M NETWORK

- For use in business-critical, high-availability installations such as ATMs, kiosks, surveillance, vehicles, etc. that require 24/7 connectivity
- Increase your network availability with WiPipe™-powered automatic failover/failback internal functionality
- Supports both wireless and wired Internet connections (two Ethernet ports for either LAN/LAN or WAN/LAN)
- IPsec VPN termination (tunnel, NAT-T, and transport)
- VLAN support to isolate, segment and secure network traffic
- Wireless 2x2 MIMO “N” WiFi (802.11 b/g/n) (WiFi version only, see available models on reverse side)
- Create a customized Hotspot with our captive portal feature (include TOS, Ads, etc.)

The CradlePoint COR Series is built for your M2M network. It's an affordable, highly-featured, compact router designed for critical business and enterprise applications that require 24/7 connectivity.

With its compact size, sleek metal case, mounting bracket, external mobile broadband and WiFi antennas (optional), COR is ideal for use in high-availability portable or fixed applications like ATMs, kiosks, surveillance, vehicles, etc.

Get instant network connectivity with a CradlePoint COR, which features a built-in modem – just activate and go. It also supports traditional wired data networks like DSL or Cable for maximum network flexibility.

Increase your Internet availability and ensure maximum uptime with business continuity features like failover/failback standard in CradlePoint COR. When configured, the router detects network failures and seamlessly switches over to another active connected network(s) - keeping your network online.

Additionally, COR is ideal for deployment as a primary connection solution where wired Internet is not available.

COR also provides VPN functionality, VLAN support, remote management, modem data usage and alerts, GPIO support, USB-to-serial console pass-through support and the ability to be part of a PCI-DSS compliant solution. It allows for secure access to company networks for enterprise applications and provides a secure way to transmit sensitive data to and from a remote site.



POWER / RESET / LAN / WAN / MICRO USB  
IBR650



ON-OFF / LEDs / SIGNAL STRENGTH  
IBR650



ON-OFF / LEDs / SIGNAL STRENGTH  
IBR600

[www.cradlepoint.com/cor](http://www.cradlepoint.com/cor)

## INTEGRATED BROADBAND ROUTER: IBR600 Series

Provides advanced support for distributed operations and emerging industries that require flexible, reliable and secure access such as temporary Internet installations, additional network bandwidth or for kiosks, digital signage, and other Machine-to-Machine (M2M) applications.

### Internet Access and Device Connectivity

Includes integrated high-speed 3G EVDO Rev. A modem, backwards compatible to EVDO Rev 0 and CDMA2000 1xRTT, GPS support

2 Ethernet LAN/WAN ports for Ethernet-Enabled devices or landline Internet

Wireless 2x2 MIMO "N" WiFi (802.11 b/g/n) (optional)

Supports up to 32 WiFi connections at a time (optional)

Two SSIDs (with own security and QoS settings; separate critical traffic or create a public WiFi hotspot) (optional)

### Security

IPsec VPN (Up to 5 concurrent sessions) and GRE Tunneling, also supports pass-through VPN connections (IPSec, L2TP, PPTP)

WEP, WPA, WPA2 with AES encryption for secure WiFi

VLAN support to isolate, segment and secure network traffic

SPI Firewall and NAT (Network Address Translation) to prevent unwanted access to connected computers

Variety of security features (URL filtering, traffic filtering, DMZ, virtual server, port forwarding) for safer Internet access.

### Flexibility

Remote management with WiPipe™ Central, SNMP v1,2,3 or CLI over SSH

IP Pass-through support provides broadband-to-Ethernet adapter

Create a WiFi hotspot with a captive portal (terms of service, ads, etc).

Network failover support & load balancing

GPIO for additional hardware control, Serial Console available (USB to Serial)

### Service, Support, and Warranty

Limited 1 Year Warranty included featuring 5x12 technical support + access to software updates + hardware repair or replacement

Optional Enterprise Support Agreement available with 24/7 technical support + software updates and upgrades + advanced hardware exchange

### IBR600 Series Includes

IBR600E: Includes WiFi, Hotspot Services/Captive Portal, WiFi-as-WAN

IBR650E: WiFi not included to facilitate PCI and HIPAA Compliance

## Specifications

**DATA IN:** 3G via internal EVDO Rev. A modem, backwards compatible to EVDO Rev 0 and 1xRTT, 10/100 Ethernet Port (cable/DSL/satellite modems), WiFi (as WAN)

**DATA OUT:** WiFi (802.11 b/g/n), Two 10/100 Ethernet Ports (WAN/LAN Switchable)

### TEMPERATURE:

-20°C to 60°C (-4°F to 140°F) Operating Modem as WAN  
-20°C to 50°C (-4°F to 122°F) Operating Ethernet as WAN  
-30°C to 70°C (-22°F to 158°F) Storage

**RELATIVE HUMIDITY** (non-condensing): 10% to 85%, Operating  
5% to 90%, Storage

### POWER

Idle: Typ=300mA@12V (3.6W) worst case=600mA@12V (7.2W)  
Tx/Rx: Typ=500mA@12V (6W) worst case=1000mA@12V (12W)  
DC input steady state voltage range: 9 - 18VDC  
Recommended inline fuse for vehicle installations: 1.5A Slow Blow

**WIFI POWER (IBR600):** Transmit Power: 15dBm typ for all modes  
Receive Sensitivity: -68dBm @ HT20 (11n), -65dBm @ HT40 (11n),  
-72dBm typ @ 54Mbps (11g), -84dBm typ @ 11Mbps (11b)

**SIZE:** 3.3-in x 4-in x 0.9-in (85mm x 102mm x 22mm)

**WEIGHT:** 7.2 oz (200g)

**CERTIFICATIONS:** FCC, WiFi Alliance, 802.3, plus carrier specific certifications

## What's In The Box

IBR600E or IBR650E Integrated Broadband Router

External 3G mobile broadband modem antennas (2) (SMA 2 dB) w/ multiplexing for GPS (IBR600E and IBR650E); options available

External WiFi antennas (2) Reverse SMA (IBR600E only)

12V / 1.5A power supply w/locking connector; GPIO cable available

Quick Start Guide with Warranty Information, Mounting Bracket

## Requirements

**Internet Service and Modem** Active Mobile Broadband plan with cellular provider or Ethernet-based Internet connection (DSL, Cable, Satellite, T1)

**Browser (to configure router)** Minimum of Firefox v2.0, Internet Explorer v7.0, Chrome, or Safari v1.0

## Router Details

**WAN Security** 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)

**Redundancy and Load Balancing** Failover/Failback with 3G/Ethernet, Load Balancing, WAN Failure Detection

**Intelligent Routing** UPnP, DMZ, Virtual Server/Port Forwarding, Routing Rules, NAT-less routing, Route Management, Content Filtering, Website Filtering, Local DHCP server, DHCP Client, DNS, DNS Proxy. ALGs: PPTP, L2TP, PPPoE pass-through, IPsec pass-through, FTP (passive), FTP (active), MAC Address Filtering, Dynamic DNS

**Management** Remote WAN Web-based Management Access (HTTP, HTTPS), Web-based GUI (Easy Management), Server-based Centralized Management (WiPipe™ Central), SNMP v1, v2c & v3, CLI over SSH, One-button firmware upgrade, Modem Configuration and Management, Modem Data Usage and Alerts

**Performance & Health Monitoring** WiPipe™ QoS, with Traffic Shaping, SSID-based priority, WAN port speed control

**VPN** (IPsec). Tunnel, NAT-T and Transport Modes. Device to CradlePoint, Cisco/Linksys, Linux system, Hash (MD5, SHA128, SHA256, SHA384, SHA512), Cipher (AES, 3DES, DES). Support for 5 concurrent connections, GRE Tunneling, multiple networks supported in a single tunnel