

# CradlePoint MBR1400 Series

## MISSION-CRITICAL BROADBAND ROUTER

Wireless WAN connectivity for distributed business locations



### Keep your business network online with high-speed wireless broadband

#### WIRELESS WAN CONNECTIVITY

The CradlePoint MBR1400 business series router enables easy-to-install wireless connectivity in fixed-business locations. Ideal for distributed enterprises such as branch offices, retail POS locations, restaurants, and small businesses, the MBR1400 provides wired Ethernet and 3G/4G wireless WAN connectivity to keep your business up and running.

#### BUSINESS CONTINUITY

As businesses increasingly depend on cloud computing and remote applications, reliable Internet connectivity becomes mission-critical for business success. CradlePoint's business series router combines the power and flexibility of our flagship router with support for CradlePoint business-grade modems and more than 125 of the latest 3G/4G (LTE, WiMAX, HSPA+, etc.) USB and ExpressCard modems to provide a business continuity solution.

#### ENTERPRISE PERFORMANCE

The MBR1400 offers the latest in high-speed 3G/4G wireless connectivity to deliver the continuous uptime and bandwidth needed to support growth in cloud computing and ensure against loss of productivity and business opportunity.

The MBR1400 now supports these enterprise routing protocols: BGP, OSPF, and RIP; VRRP for router redundancy; and STP.

#### FLEXIBLE

- Use a 3G/4G wireless modem as the primary connection or as failover from a wired connection.
- Create secondary networks to simplify PCI compliance, video surveillance, digital signs, kiosks, etc.
- Load balance across multiple wired and wireless connections when additional bandwidth is required.

\*BGP, OSPF, RIP, VRRP, and STP require hardware version 2.0.

#### SECURE AND RELIABLE

- LAN connections are protected with advanced WiFi encryption, LAN Segmentation, and VLAN capabilities.
- Main office access and POS transactions are protected by VPN capability and other security features to ensure your network stays secure.
- Designed for PCI compliant network architectures.
- Engineered for day-in, day-out 24/7 Internet connectivity, CradlePoint business series routers ensure reliable connections when you need them.

#### WIPIPE CENTRAL: CLOUD-ENABLED MANAGEMENT

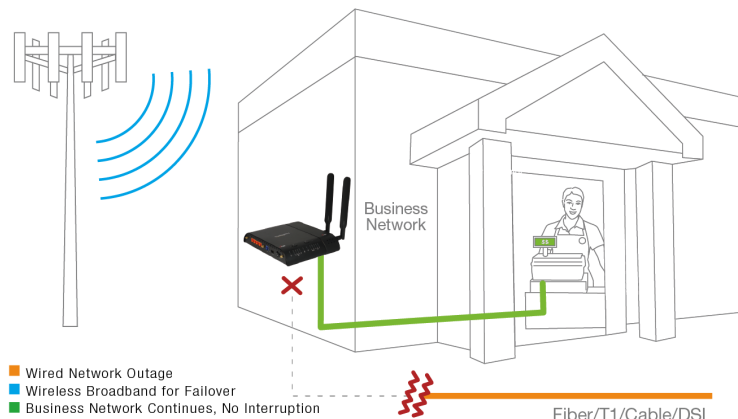
Rapidly deploy and dynamically manage networks at geographically distributed stores and branch locations with WiPipe Central, a cloud-enabled application and security platform. WiPipe Central integrates cloud management with your CradlePoint devices to improve productivity, increase reliability, reduce costs, and enhance the intelligence of your network and business operations.

Subscription required. See [cradlepoint.com/wipipe](http://cradlepoint.com/wipipe) for details.

#### CRADLECARE SERVICES

The MBR1400 comes with a standard 1 year warranty. For extended warranties and other enhanced services including enterprise-level support, site surveys, and expert installation, check out CradlePoint's CradleCare suite of services.

Subscription required. See [cradlepoint.com/cradlecare](http://cradlepoint.com/cradlecare) for details.



[www.cradlepoint.com/MBR1400](http://www.cradlepoint.com/MBR1400)

# MBR1400 Mission-Critical Broadband Router

## Key Features and Benefits

### Internet Access and Device Connectivity

Plug-and play support for more than 125 of the most advanced broadband data modems (LTE, WiMAX, HSPA+); optional integrated 3G/4G modem for superior performance

5 Ethernet 10/100/1000 LAN/WAN ports for Ethernet-enabled devices or landline Internet

Wireless LAN – WiFi (802.11 a/b/g/n) supports up to 128 connections at a time

### Business Continuity: Failover/Failback

Automatic failover to wireless WAN connection when wired WAN disruption occurs, automatic failback when wired WAN connection is restored

Load balancing across multiple wired and wireless WANs for more bandwidth

Proactive alerts when failover occurs through WiPipe Central™

VRRP for enterprise router redundancy (hardware version 2.0 only)

### Flexibility

First-time and advanced setup wizards for easy, swift, and secure setup

One-page dashboard to view router status and configuration

Remote management with WiPipe Central™, SNMP v1/2c/3, and CLI over SSH

Four SSIDs, with individual security and QoS settings, to separate critical traffic or create a public WiFi hotspot with a captive portal (terms of service, ads, etc.)

“WiFi as WAN” mode enables use as a WiFi repeater, WiFi Bridge, or as a WiFi-to-Ethernet adapter for Ethernet-enabled devices

Multiple Ethernet ports can be configured to “WAN Mode” to provide wireless and wired failover and load balancing

Data usage management and alerts to monitor data usage and avoid overages

LAN/WAN Affinity to assign specific LAN traffic to a WAN

Serial console available for out-of-band management of another device (with USB-to-serial cable)

Enterprise routing protocols: BGP, OSPF, RIP (hardware version 2.0 only)

Advanced diagnostics tools including: tcpdump, netfilter, traceroute

### Security

IPsec VPN (up to 20 concurrent sessions) with GRE Tunneling option, also supports passthrough VPN connections (IPsec, L2TP, PPTP)

WEP, WPA, WPA2, and AES encryption for secure WiFi

SPI (stateful packet inspection) firewall and NAT (network address translation) to prevent unwanted access to connected computers

Advanced security mode and reporting to facilitate PCI-DSS compliance

Variety of security features (URL filtering, IP & traffic filtering, DMZ, port forwarding) for safer Internet access

802.1Q VLAN support to isolate, segment, and secure your network

### Service, Support, and Warranty

CradleCare Premier 1, 2, and 3 year Enterprise Support Agreements available with 24/7 technical support, software upgrades, and advanced hardware exchange

Limited 1 year warranty included, access to software updates and hardware repair or replacement – 2 and 3 year warranty extensions available

CradleCare Site Survey and Installation services offered for rapid deployment

### Specifications

**WAN** USB modem ports (3), ExpressCard modem ports (2), 10/100/1000 Ethernet ports (cable/DSL/T1/satellite modems), WiFi (as WAN) 3x3 MIMO “N” 2.4 GHz or 5 GHz (802.11 a/b/g/n)

**LAN** WiFi (802.11 a/b/g/n), five 10/100/1000 Ethernet ports (WAN/LAN switchable), serial console support w/ USB-to-serial adapter

**TEMPERATURE** 0°C to 40°C (32°F to 104°F) operating  
-20°C to 70°C (-4°F to 158°F) storage

**RELATIVE HUMIDITY** (non-condensing) 10% to 85%, operating  
5% to 90%, storage

**SIZE** 9x5.1x1.6 in (230x130x40 mm) or 9x7.25x1.6 in (230x185x40 mm)

**CERTIFICATIONS** FCC, WiFi Alliance, CE, IC, carrier certifications

**WIFI POWER** Transmit power: 25 dBm typ for all modes; receive sensitivity: -69 dBm typ (11n), -72 dBm typ (11g), -84 dBm typ (11b)

### What's In The Box

MBR1400 mission-critical broadband router

External high-gain WiFi antennas (3) reverse SMA (2 dBi, 2.4 GHz), finger tighten only

12V / 1.5A power supply

Quick Start Guide with warranty information

Mounting hardware

### Requirements

**Internet Service** Active mobile broadband plan with cellular provider or Ethernet-based Internet connection (DSL, Cable, 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 4G, 3G, Ethernet with rule selection, advanced load balancing options (round robin, spillover, data usage, rate), WAN failure detection, VRRP\*

**Intelligent Routing** UPnP, DMZ, virtual server/port forwarding, routing rules, NAT-less routing, wired or wireless WAN-to-LAN IP passthrough, route management, per-interface routing, content filtering, IP filtering, website filtering, per-client Web filtering, local DHCP server, DHCP client, DHCP relay, DNS, DNS proxy; ALGs: PPTP, L2TP, PPPoE passthrough, IPsec passthrough, FTP (passive), FTP (active), SIP, TFTP, IRC, MAC address filtering, Dynamic DNS, LAN/WAN affinity, VLAN support (802.1Q), STP,\* enterprise routing protocols:\* BGP/OSPF/RIP, multicast proxy support,\* IP setting overrides

**Management** WiPipe Central™ cloud-enabled management and application platform (subscription-based); web-based GUI (local management), optional RADIUS or TACACS+ username/password; remote WAN web-based management w/ access control (HTTP, HTTPS); SNMP v1, v2c, & v3; CLI over SSH, SSH to serial, SSH to telnet; API; one-button firmware upgrade; modem configuration, update, and management; modem data usage w/ alerts, per-client data usage; custom AT scripting to modems

**Performance & Health Monitoring** WiPipe™ advanced QoS with traffic shaping, with DSCP/DiffServe QoS, Modem Health Management (MHM) improves connectivity of modem, SSID-based priority, WAN port speed control, several levels of basic and advanced logging for troubleshooting

**VPN** (IPsec) Tunnel, NAT-T, and transport modes; connect to CradlePoint, Cisco/Linksys, CheckPoint, Watchguard, Juniper, SonicWall, Adtran and others; certificate support; Hash (MD5, SHA128, SHA256, SHA384, SHA512), Cipher (AES, 3DES, DES); support for 20 concurrent connections, GRE tunneling, multiple networks supported in a single tunnel, site-to-site dynamic VPN with NHRP\*

**GPS** Standalone GPS supported on most models (see attached); GUI mapping as well as local (LAN) or remote (WAN) server logging

\*Requires hardware version 2.0

For an up-to-date list of compatible 3G/4G modems, visit [www.cradlepoint.com/modems](http://www.cradlepoint.com/modems). CradlePoint does not guarantee compatibility or support for all third party data modems. Newer firmware may be necessary to provide support for your modem. One-year limited hardware warranty only available in the US and Canada. Product specifications are subject to change without notice. This product requires either an active subscription from a wireless service provider or Ethernet-based broadband service from an Internet service provider to receive Internet service. Check with your broadband provider for service coverage, fees, and other charges. © 2013 CradlePoint, Inc. All rights reserved. CradlePoint, WiPipe™, and the WiPipe logo are trademarks of CradlePoint, Inc. in the US and other countries. Other trademarks are the property of their respective owners.

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# Ordering information

## MBR1400 and ARC MBR1400 Integrated Business Series Routers

MBR1400	CradlePoint's mission-critical business series router with 802.11 a/b/g/n
ARC MBR1400LE-VZ	Business series router with dual-mode, high-performance <b>4G LTE / EVDO</b> wireless WAN connection for the Verizon network (802.11 a/b/g/n WiFi)
ARC MBR1400LP-AT	Business series router with dual-mode, high-performance <b>4G LTE / HSPA+</b> wireless WAN connection for the AT&T network (802.11 a/b/g/n WiFi)
ARC MBR1400W	Business series router with high-performance <b>WiMAX</b> wireless WAN connection for the Sprint or CLEAR networks (802.11 a/b/g/n WiFi)

## Cloud-Enabled Management and Application Platform

WiPipe Central

Rapidly deploy and dynamically manage networks at geographically distributed stores and branch locations with WiPipe Central, a cloud-enabled application and security platform. WiPipe Central integrates cloud management with your CradlePoint devices to improve productivity, increase reliability, reduce costs, and enhance the intelligence of your network and business operations.

- **Deployment** – configure devices by groups or individually, and update firmware easily with a few clicks.
- **Management** – monitor device statuses and set proactive alerts for optimized 3G/4G data usage and network uptime.
- **Intelligence** – view network analytics, manage security and PCI compliance, and measure mobile customer traffic using WiFi analytics.

Annual and multi-year licenses available. See [cradlepoint.com/wipipe](http://cradlepoint.com/wipipe) for details.

## Enterprise Support Agreements

CradleCare Premium

When your applications are mission critical, you need the assurance that only the CradleCare Premier plan can provide: 24-hour coverage every day, all year – including holidays. As a CradleCare Premier customer, you will be assigned an account engineer\* for consistency and follow-up on all your cases, with periodic case reviews provided.

- Complete technical support, 24/7 coverage; unlimited 24-hour technical support center assistance; extended warranty; next-day parts replacement; assigned account engineer\*; guaranteed response times; online video-based training sessions; software bug fixes and upgrades; advanced replacement; access to CradlePoint Enterprise Advanced Services Knowledge Base and online documentation.

*\*Account engineer for customers with 50+ sites.*

CradleCare Warranty Extension

This plan represents an extension of the standard 1-year CradlePoint warranty to 2 or 3 years.

- One-time enterprise technical support; software bug fixes; access to CradlePoint Enterprise Advanced Services Knowledge Base and online documentation; hardware repair/replacement.

## ARC Accessories (see CradlePoint's antenna ordering and installation guide for more information)

Part # 170587-000	Directional Patch antennas for external (outside) mounting
Part # 170588-000	Directional Yagi (Log-Periodic) antennas for external (outside) mounting
Part # 170586-000	Omni-directional antennas for external (outside) mounting
Part # 170605-000	12" Mag-mount antenna
Part # 170606-000	4" Mini mag-mount antenna

For an up-to-date list of compatible 3G/4G modems, visit [www.cradlepoint.com/modems](http://www.cradlepoint.com/modems). CradlePoint does not guarantee compatibility or support for all third party data modems. Newer firmware may be necessary to provide support for your modem. One-year limited hardware warranty only available in the US and Canada. Product specifications are subject to change without notice. This product requires either an active subscription from a wireless service provider or Ethernet-based broadband service from an Internet service provider to receive Internet service. Check with your broadband provider for service coverage, fees, and other charges. © 2013 CradlePoint, Inc. All rights reserved. CradlePoint, WiPipe™, and the WiPipe logo are trademarks of CradlePoint, Inc. in the US and other countries. Other trademarks are the property of their respective owners.

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