

Release Notes for CradlePoint Rev 1.9.0 Firmware

Products supported/tested:

Mobile Broadband Router 1200 (MBR1200)
Mobile Broadband Router 1000 (MBR1000)
Mobile Broadband Router 900 (MBR900)
Mobile Broadband Router 800 (MBR800)
Wireless N Home Router (MBR90)
CradlePoint Travel Router (CTR500)
Cellular Broadband Adapter (CBA250)
Cellular Broadband Adapter (CBA750)
Cellular Broadband Adapter (CX111)

Phone modems/handsets tested (devices added since 1.8.2 in blue):

USB Modems

AnyDATA ADU-555C ("M-Blaze Premium") / *MTS (India)*
AxxessTel MV240 / *Cellcom (USA)*
BandLuxe C330 / *Claro (Puerto Rico)*
Calcomp a600 / *Cricket (USA)*
CradlePoint MC100E-SP / *Sprint (USA)* / Supported on CBA750 only
CradlePoint MC100E-VZ / *Verizon (USA)* / Supported on CBA750 only
CradlePoint MC100W / *Clear (USA)* / Supported on CBA750 only
CradlePoint MC100W / *Sprint (USA)* / Supported on CBA750 only
[CradlePoint MC200LE-VZ / Verizon \(USA\)](#) Supported on CBA750 only
EpiValley SEC 8380 / *Tata Teleservices (India)*
EpiValley SXC-1080 / *Tata Teleservices (India)*
Franklin CDU-550 / *Sprint (USA)*
Franklin CDU-680 / *nTelos (USA)* (GPS - see Known Issues)
Franklin CDU-680 / *Pioneer Wireless (USA)* (GPS - see Known Issues)
Franklin CDU-680 / *Sprint (USA)* (GPS - see Known Issues)
[Franklin S600C / Sprint \(USA\)](#)
Franklin U210 / *Strata Networks (USA)*
Franklin U300 ("Clear 4G+ USB Modem") / *Clear (USA)*
Franklin U300 (CMU-300) ("Comcast High Speed 2go") / *Comcast (USA)*
Franklin U300 ("Sprint 3G/4G USB Modem U300") / *Sprint (USA)*

Franklin U300 ("Road Runner Franklin U300") / *Time Warner Cable (USA)*
Franklin U301 (CMU-301) ("Comcast High Speed 2go") / *Comcast (USA)*
Franklin U301 ("Sprint 3G/4G USB Modem U301") / *Sprint (USA)* (3G Activation, PRL Update)
Franklin U301 ("Road Runner Franklin U301") / *Time Warner Cable (USA)*
Franklin U600 / *Sprint (USA)* (3G Activation, PRL Update, FUMO, GPS)
Huawei D02HW / *EMOBILE (Japan)*
Huawei D21HW / *EMOBILE (Japan)*
Huawei D22HW / *EMOBILE (Japan)*
[Huawei E153 / *Airtel \(India\)*](#)
Huawei E1550 / *Tele2 (Sweden)*
Huawei E1550 / *Telenor (Sweden)*
Huawei E1550 / "3" (*Sweden*)
Huawei E156G / "3" (*UK*)
Huawei E160E / *Orange (UK)*
Huawei E1691 ("T-Mobile webConnect Jet USB") (UMG1691) / *T-Mobile (USA)*
Huawei E173 / *Reliance (India)*
[Huawei E1731 / *Airtel \(India\)*](#)
Huawei E1750 / *Telia (Sweden)*
Huawei E1750 / *Tele2 (Sweden)*
Huawei E1750 / *Telenor (Sweden)*
Huawei E1750 / *T-Mobile (UK)*
Huawei E1752 / *Orange (UK)*
[Huawei E177 / *Tata Docomo \(India\)*](#)
Huawei E181 ("T-Mobile webConnect USB") (UMG181) / *T-Mobile (USA)*
Huawei E1815 ("USBConnect 900") / *AT&T (USA)*
Huawei E182E / *Telus (Canada)*
Huawei E182E / "3" (*Sweden*)
Huawei E1831 (webConnect Rocket USB) (UMG1831) / *T-Mobile (USA)*
Huawei E220 / *AT&T (USA)*
[Huawei E368 \("AT&T USBConnect Force 4G"\) / *AT&T \(USA\)*](#)
[Huawei E372 / *Telus \(Canada\)*](#)
[Huawei E398 / *Tele2 \(Sweden\)*](#)
Huawei EC1261 / *Tata Teleservices (India)*
Huawei EC1262 / *Reliance (India)*

Huawei EC150 / *Reliance (India)*
[Huawei EC156 / Tata Photon \(India\)](#)
Huawei EC168 / *Alltel (USA)*
Huawei EC168 / *Verizon (USA)*
Huawei EC168C / *Tata Teleservices (India)*
Huawei EC168C / *Reliance (India)*
Huawei EC1705 / *Cricket (USA)*
Huawei EC228 / *Alltel (USA)*
Huawei FWH-USB0328 ("4G Mobile USB Series H") / *Clear (USA)*
Huawei K3565 (E180) / *Vodafone (UK)*
Huawei K4505 ("Vodafone Modem Stick Pro") / *Vodafone (UK)*
Huawei UMG366 ("T-Mobile Jet 2.0") / *T-Mobile (USA)*
LG AD600 ("AT&T USBConnect Adrenaline") / *AT&T (USA)* - [additional support for latest modem firmware](#)
LG L-02A / *AT&T (USA)*
LG L-02A ("NTT DoCoMo L-02A") / *DoCoMo (Japan)*
[LG L-02C / NTT DoCoMo \(Japan\)](#)
LG L-05A / *NTT DoCoMo (Japan)*
LG Turbo LUU-2100TI / *AT&T (USA)* / Supported on MBR1200, MBR900, MBR90, CBA750, CX111 only
LG VL600 ("4G LTE") / *Verizon (USA)*
Linktop LW272 / *BSNL/MTNL (India)*
Linktop LW273 / *BSNL/MTNL (India)*
Longcheer C01LC / *Softbank (Japan)*
Longcheer D11LC / *EMOBILE (Japan)*
Longcheer D12LC / *EMOBILE (Japan)*
Longcheer D21LC / *EMOBILE (Japan)*
[Micromax MMX 352G / Aircel \(India\)](#)
Motorola USBw 100 (25w100) ("Clear USB Modem") / *Clear (USA)*
Motorola USBw 100 (25w100) / *Time Warner Cable (USA)*
Nokia CS-18 ("HSPA+ Rocket Mobile Internet Stick") / *Rogers (Canada)*
Novatel MC551 ("Verizon USB551L") / *Verizon (USA)*
Novatel MC720 ("Sprint U720") / *Sprint (USA)* (GPS - see Known Issues)
Novatel MC720 ("Verizon USB720") / *Verizon (USA)*
Novatel MC727 ("Sprint U727") / *Sprint (USA)* (GPS - see Known Issues)

Novatel MC727 ("Verizon USB727") / *Verizon (USA)*

Novatel MC760 ("Novatel U760") / *Bell Mobility (Canada)*

Novatel MC760 / *Cellcom (USA)*

Novatel MC760 / *Comcast (USA)*

Novatel MC760 / *Virgin Mobile (USA)*

Novatel MC760 ("Sprint U760") / *Sprint (USA)* (3G Activation, PRL Update, GPS - see Known Issues)

Novatel MC760 ("Verizon USB760") / *Verizon (USA)* (3G Activation, GPS - see Known Issues)

Novatel MC930D / *AT&T (USA)*

Novatel MC950D / *AT&T (USA)*

Novatel MC998D ("U998 HSPA+ Turbo Stick") / *Bell Mobility (Canada)*

Novatel MiFi 2200 / *Sprint (USA)*

Novatel MiFi 2200 / *Verizon (USA)*

[Novatel U547\("4G Novatel Wireless U547 Turbo Stick"\) / *Bell Mobility \(Canada\)*](#)

Option iCON 322 ("AT&T USBConnect Quicksilver") / *AT&T (USA)* * (see Known Issues)

Option iCON 461 ("AT&T USBConnect Velocity") / *AT&T (USA)*

Option iCON 515M ("G11515") / *Orange (UK)*

Pantech UM100 / *Cricket (USA)*

Pantech UM150 / *Alltel (USA)*

Pantech UM150 / *Verizon (USA)*

Pantech UM175 / *Alltel (USA)*

Pantech UM175 / *U.S. Cellular (USA)*

Pantech UM175 / *Verizon (USA)*

Pantech UM185 / *Alltel (USA)*

Pantech UM185 / *Cricket (USA)*

Pantech UM185 / *U.S. Cellular (USA)*

Pantech UML290VW ("4G LTE") / *Verizon (USA)* - [additional support for latest modem firmware](#)

Pantech UMW190VZ / *Verizon (USA)*

Pantech UMW190NCD / *Verizon (USA)*

Sierra Wireless 250U / *Sprint (USA)* (3G Activation, PRL Update, FUMO, [HFA](#))

Sierra Wireless 250U / *Clear (USA)*

Sierra Wireless 250U / *Time Warner Cable (USA)*

Sierra Wireless 305 USB ("AT&T USBConnect Lightning") / *AT&T (USA)*

Sierra Wireless 306 USB / *AT&T (USA)*
Sierra Wireless 306 USB / *Telus (Canada)*
[Sierra Wireless 313U \("AT&T USBConnect Momentum 4G"\) / AT&T \(USA\)](#)
Sierra Wireless 595U USB / *Sprint (USA)* (GPS - see Known Issues)
Sierra Wireless 595U USB / *Telus (Canada)*
Sierra Wireless 595U USB / *Verizon (USA)*
Sierra Wireless AirCard 308 USB / *Rogers (Canada)*
Sierra Wireless AirCard 308 ("AT&T USBConnect Shockwave") / *AT&T (USA)*
[Sierra Wireless AirCard 319U / Telus \(Canada\)](#)
Sierra Wireless Compass 597U / *Sprint (USA)* (GPS - see Known Issues)
Sierra Wireless Compass 597U / *Telus (Canada)*
Sierra Wireless Compass 598U / *Pioneer Wireless (USA)* (GPS - see Known Issues)
Sierra Wireless Compass 598U / *Sprint (USA)* (3G Activation, PRL Update, FUMO, [HFA](#), GPS - see Known Issues)
Sierra Wireless Compass 598U / *Telus (Canada)* (GPS - see Known Issues)
Sierra Wireless 875U / *AT&T (USA)*
Sierra Wireless 880U / *AT&T (USA)*
Sierra Wireless 881U ("AT&T USBConnect 881") / *AT&T (USA)*
Sierra Wireless Compass 885 (885U) ("AT&T USBConnect Mercury") / *AT&T (USA)*
Sierra Wireless Compass 888 / *AT&T (USA)*
Sierra Wireless Compass 889 / *O2 (UK)*
TCT Mobile X220Y ("One Touch X220Y") / *Claro (Puerto Rico)*
Ubee PXU1900 ("Clear 4G Mobile USB") / *Clear (USA)*
Ubee PXU1903 / *Comcast (USA)*
Ubee PXU1930 ("Rover Stick") / *Rover (USA)*
Ubee U1901SP / *Sprint (USA)*
Verykool M950 / *Claro (Puerto Rico)*
[Zoom ZM0620 \("Zoom 4695"\) / Claro \(Puerto Rico\)](#)
ZTE A605 / *Cricket (USA)*
ZTE AC2726 / *Reliance (India)*
ZTE AC2746 / *MTS (India)*
ZTE AC2766 ("M-Blaze Standard") / *MTS (India)*
ZTE K3570-Z / *Vodafone (UK)*
ZTE MF100 / *O2 (UK)*
ZTE MF112 / "3" *(UK)*

ZTE MF190 / *Reliance (India)*
ZTE MF626 ("B-Mobile 3G") / *B-Mobile (Japan)*
[ZTE MF631 / *Tata Docomo \(India\)*](#)
ZTE MF636 / *Orange (UK)*
ZTE MF636 ("Rogers HSPA Rocket Stick") / *Rogers (Canada)*
ZTE MF637 / *T-Mobile (UK)*
ZTE MF668 / *Reliance (India)*
ZTE MF668 ("Rogers HSPA+ Rocket Stick") / *Rogers (Canada)*
[ZTE MF683 \("T-Mobile Rocket 3.0 4G Laptop Stick"\) / *T-Mobile \(USA\)*](#)
ZTE MF691 ("T-Mobile webConnect Rocket 2.0") / *T-Mobile (USA)*
ZTE TU25 / *Comcast (USA)*
ZTE TU25 / *Digital Bridge (USA)**
ZTE TU25 / *Sprint (USA)*
ZTE TU25 / *Xohm (USA)*

ExpressCard Modems (Requires an ExpressCard-to-USB adaptor)

Huawei E870 / *AT&T (USA)*
Huawei E881 / *Orange (UK)*
Kyocera KPC680 / *nTelos (USA)*
Kyocera KPC680 / *Verizon (USA)*
[Novatel CC208 \("Merlin CC208 3G/4G 2-in-1 Card"\) / *Sprint \(USA\)* \(3G Activation, PRL Update, FUMO\)](#)
Novatel CC760 ("Sprint C777") / *Sprint (USA)* (3G Activation, PRL Update)
Novatel CC760 ("Verizon PC770") / *Verizon (USA)* (GPS - see Known Issues)
Novatel X720 ("Sprint EX720") / *Sprint (USA)* (GPS - see Known Issues)
Novatel X720 ("Verizon V740") / *Verizon (USA)*
Novatel X950D / *AT&T (USA)*
Option GlobeTrotter Express 442 (GE442) / *T-Mobile (USA)*
Option GT Max 3.6 Express / *AT&T (USA) **
Option GlobeTrotter Express HSUPA ("GT Ultra Express") / *AT&T (USA)*
Note: Requires an ExpressCard-to-USB adapter that provides 1.2V
Sierra Wireless 402 / *Pioneer Wireless (USA)*
Sierra Wireless 402 / *Sprint (USA)* (3G Activation, PRL Update, FUMO)
Sierra Wireless 503 ("HSPA+ Rocket AirCard") / *Rogers (Canada)*

Sierra Wireless 504 (“AirCard 890”) / *AT&T (USA)* - [additional support for latest modem firmware](#)

Sierra Wireless 597E / *Sprint (USA)* (GPS - see Known Issues)

Sierra Wireless 597E / *Telus (Canada)*

Sierra Wireless 880E / *AT&T (USA)*

PCCard modems (MBR1200 only):

Novatel Merlin CC760 (“Sprint S720”) / *Sprint (USA)*

Pantech PC5750 (“Verizon PC5750”) / *Verizon (USA)*

Pantech PX-500 / *Sprint (USA)*

Sierra Wireless AirCard 595 / *Sprint (USA)*

Sierra Wireless AirCard 595 / *Verizon (USA)*

Handsets

HP iPaq 910 / *AT&T*

HTC Touch / *Sprint*

HTC Mogul PPC-6800 / *Sprint*

HTC Apache PPC-6700 / *Sprint*

LG VX8000, VX8300 / *Verizon*

LG VX7200 / *Verizon*

LG Musiq / *Sprint*

LG Fusic LX-500 / *Sprint*

Motorola v3c RAZR / *Sprint, Verizon*

Motorola RAZR v3xx / *AT&T*

Motorola RAZR2 / *Sprint*

Motorola Q, Q9c / *Sprint*

Motorola Q v9h / *AT&T*

Motorola KRZR / *Sprint*

Palm 700w / *Sprint, Verizon*

Palm 700p / *Verizon*

Palm 755p / *Sprint*

Palm Centro / *Sprint*

Note: Palm Centro requires Router Rev. 1.1 hardware or later, or use of an external hub.

RIM BlackBerry Bold 9000 / *AT&T*

RIM BlackBerry Pearl 8130 / *Sprint, Verizon*

RIM BlackBerry Curve 8330 / *Sprint, Verizon*

RIM BlackBerry 8703e / *Sprint, Verizon*

RIM BlackBerry 8830 / *Sprint, Verizon*

RIM BlackBerry 9530 Storm / *Verizon*

Samsung ACE / *Sprint*

Samsung A900, A900M, A920 / *Sprint*

Samsung SCH-i830 / *Sprint*

Samsung SGH-A707 / *AT&T*

Samsung Blackjack (SGH-i607) / *AT&T*

Samsung SPH-m520 / *Sprint*

Sanyo M1 / *Sprint*

Sanyo SCP-6600 (Katana) / *Sprint*

Sanyo Katana 2 / *Sprint*

Sanyo SCP-8400 / *Sprint*

Notes:

*Devices marked as AT&T were tested using the AT&T network in the United States. The device may or may not work with other UMTS/GSM carriers internationally.

New features added in this release:

- New modem support added, listed above in blue
- Integrated modem driver architecture
- Novatel CC208 ExpressCard WiMAX/3G modem, requires upgrade to WiMAX Modem Binary (u_modem.bin) version 6.1.2.
- Sprint WiMAX modems. Added mutual authentication certificates to sprintpcs.com.
- Sprint network-initiated and HFA OMA support for MC200E, 250U, 598U
- New WAN Verify Connection modes:
 - 1) DNS query after configured idle time and then only when data is pending from LAN to WAN that causes no receive traffic
 - 2) DNS query after configured idle time whether data is pending or not
 - 3) Ping after configured idle time whether data is pending or not
- Expanded SNMPv1 support to include ESN/MEID, Modem FW version fields (MIB v1.4). Added ability to downgrade firmware.
- CBA250, CBA750 only. Added ability to ping configuration channel interface (single VLAN). Returns the response to the requesting IP address.

Additional UI/usability changes:

- PCI-DSS compatibility enhancements, impacting user accounts and passwords
- Modified Sprint U1901 realm default to sprintpcs.com.
- Sprint C777 GPS status calls disabled and removed.

Defects fixed:

- DynDNS client now uses more robust retry algorithm when DynDNS server fails to respond.
- DynDNS 503 issue. Router now attempts follow-on retries if the server is initially unavailable.
- Verizon LTE modems. Added stability for recent modem firmware updates; improved timing and retry robustness.
- Modems using QMI interface (including Novatel 551L). Timing / retry issues addressed.
- Novatel 551L. Manual APN selection for 3G (eHRPD). Note: 4G mode already worked.
- SIM card timing. Fixed issue where modem would fail to plug if SIM was not ready when queried.

Known issues:

Carrier

- nTelos. These modems appear to block incoming ports. That affects the ability to use features such as Remote Management, GPS Network port on WAN, and responding to a WAN ping.
- AT&T. These modems appear to block some incoming ports. That affects the ability to use features such as Remote Management.

Modem/Phone

- Option GT and Ultra Express modem support. These modems can take up to 2.5 minutes to make a data connection. In our tests, they appear to spend a long time attempting to get a signal before they can make a data connection. The Ultra seems to connect more quickly in our tests. Note that the Ultra Express' performance in the router is not as good as in the PC. This modem works with the router, but if you have a choice any of the other GSM modems such as the Novatel or Sierra Wireless are more compatible.

WiMAX

- Best performance of the router and modem occur with the router's WiFi channel set to a low number (1 or 2). At higher frequencies the WiFi and WiMAX radios may interfere with each other, which you may see as lower network performance.

GPS

- These modems indicate the capability to provide GPS coordinates. Actual results are dependent upon carrier support, location, and the environment in which GPS is being attempted. Results may vary.

MBR90/MBR900 with LTE or WiMAX Modems

- The combination of high data rate LTE or WiMAX modems along with a wired LAN connection may cause modem connection reliability issues when “Use Fastest Communication Method” is enabled. For best connection reliability, either connect to the router using WiFi or disable “Use Fastest Communication Method” in the Modem->Settings page

*Note: Disabling “Use Fastest Communication Method” may result in lower data rates.