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Global Leader in 4G LTE Network Solutions

COR Series Router

IBR350

Spec Sheet

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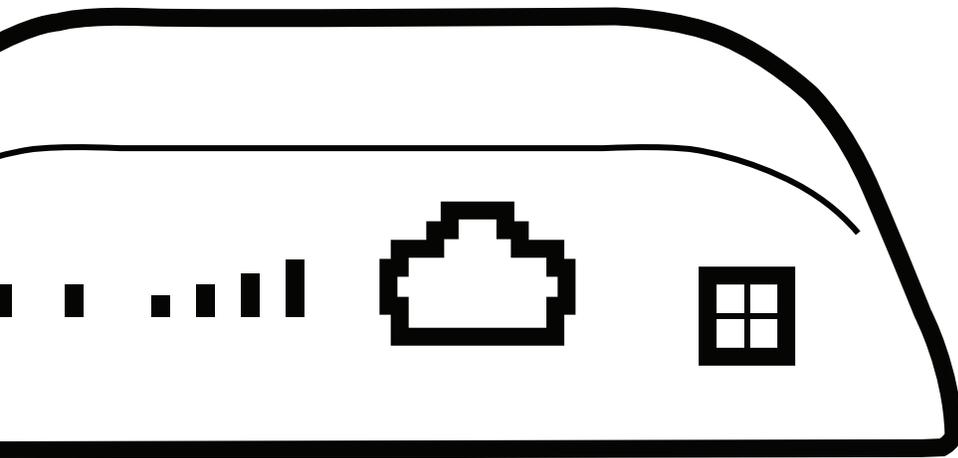
INTRODUCTION

WHAT'S IN THE BOX

- M2M router with integrated business-class 4G LTE or HSPA+ or LTE/HSPA+/EVDO modem; includes integrated mounting holes
- 12VDC 1A power adapter (1.5 meter cord)
- Two modem antennas
- Quick Start Guide with warranty and regulatory information

KEY FEATURES

WAN

- LTE-only, HSPA+, or LTE/HSPA+/EVDO
- Advanced Modem Failure Check

LAN

- VLAN 802.1Q
- DHCP Server, Client, Relay
- DNS and DNS Proxy
- DynDNS
- UPnP
- DMZ
- Multicast/Multicast Proxy
- QoS (DSCP and Priority Queuing)
- MAC Address Filtering

MANAGEMENT

- Cradlepoint Enterprise Cloud Manager[1]
- Web UI, API, CLI
- Data Usage Alerts (router and per client)
- Advanced Troubleshooting (support)
- Device Alerts
- SNMP
- SMS control

VPN AND ROUTING

- • IPsec Tunnel – up to two concurrent sessions
- • GRE Tunnel
- • Routing Rules
- • NAT-less Routing
- • Virtual Server/Port Forwarding
- • IPv6
- • CP Secure VPN compatible*

*-Cradlepoint Secure VPN-NAT configuration only

SECURITY

- RADIUS and TACACS+
- 802.1x authentication for Ethernet
- Certificate support
- ALGs
- MAC Address Filtering
- Advanced Security Mode (local user management only)
- Per-Client Web Filtering
- IP Filtering
- Content Filtering (basic)
- Website Filtering

1 – **Enterprise Cloud Manager** requires a subscription

SYSTEM REQUIREMENTS

- At least one Internet source: a Cradlepoint integrated 3G/4G modem with an active data plan, an Ethernet-based modem, or WiFi as WAN
- Windows 7/8, Mac OS X, or Linux computer (with WiFi adapter – 802.11n recommended – for WiFi functionality)
- Internet Explorer v6.0 or higher, Firefox v2.0 or higher, Safari v1.0 or higher

SPECIFICATIONS

WAN:
- Integrated LTE-only, HSPA+, or LTE/HSPA+/EVDO modem
- Dual-SIM slots (single on LTE-only)

LAN: One LAN 10/100 Ethernet port

PORTS:
- Power
- One Ethernet LAN
- Two cellular antenna connectors (SMA)

TEMPERATURE: 0°C to 40°C (32°F to 104°F) operating

HUMIDITY (non-condensing):
- 5% to 95% operating
- 5% to 95% storage

POWER: 12VDC 1A adapter

SIZE: 3.0 x 3.7 x 1.0 in (76.5 x 94.5 x 24.5 mm)

CERTIFICATIONS:
- PTCRB, GCF-CC, FCC, IC, CE, Carrier; (others pending)
- Safety: UL/CUL
- Materials: WEEE, RoHS, RoHS-2, California Prop 65

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ACCESSORIES

- Universal 3G/4G multi-band cellular modem antenna – 2dBi/3dBi (Part # 170649-000)
- Replacement cellular paddle antenna (▲) (for IBR350P2 only) - 2dBi (Part #170555-000)
- Directional Patch antennas for external (outside) mounting (Part # 170587-000)
- Directional Yagi (Log-Periodic) antennas for external (outside) mounting (Part # 170588-000)
- Omni-directional antennas for external (outside) mounting (Part # 170586-000)
- 12" Mag-mount antenna (Part # 170605-000)
- 4" Mini mag-mount antenna (Part # 170606-000)
- Barrel to 4-pin power adapter (Part # 170665-000)

See the Cradlepoint **antenna accessories page** for more information about antennas. Also see the Antenna Ordering and Installation Guide, available as a PDF in the Resources section of antenna and router product pages.

BUSINESS-GRADE MODEM SPECIFICATIONS

COR IBR350 models include an integrated 4G LTE or HSPA+ or LTE/HSPA+/EVDO modem – specific model names include a specific modem (e.g., the COR IBR350L-VZ includes a Verizon LTE modem).

COR IBR350LPE-VZ – 4G LTE/HSPA+/EVDO for Verizon
- **Technology**: LTE, HSPA+, EVDO Rev A
- **Downlink Rates**: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- **Uplink Rates**: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- **Frequency Bands**:
  - LTE: Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
  - HSPA+/UMTS: (850/900/1900/2100 MHz, AWS)
  - GSM/GPRS/EDGE: (850/900/1800/1900 MHz)
  - CDMA EVDO: Rev A/1xRTT (800/1900 MHz)
- **Power**: LTE 23 dBm +/– 1, HSPA+ 23 dBm +/– 1, EVDO 24 dBm +0.5/–1 (typical conducted)
- **Antennas**: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgfcm)
- **Industry Standards & Certs**: PTCRB, FCC, IC, UL, Verizon
- **SIM**: two 2FF slots
- **GPS**: standalone GPS support

COR IBR350LPE-AT – 4G LTE/HSPA+/EVDO for AT&T
- **Technology**: LTE, HSPA+, EVDO Rev A
- **Downlink Rates**: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- **Uplink Rates**: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- **Frequency Bands**:
  - LTE: Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
  - HSPA+/UMTS: (850/900/1900/2100 MHz, AWS)
  - GSM/GPRS/EDGE: (850/900/1800/1900 MHz)
  - CDMA EVDO: Rev A/1xRTT (800/1900 MHz)
- **Power**: LTE 23 dBm +/– 1, HSPA+ 23 dBm +/– 1, EVDO 24 dBm +0.5/–1 (typical conducted)
- **Antennas**: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgfcm)
- **Industry Standards & Certs**: PTCRB, FCC, IC, UL, AT&T

- **SIM**: two 2FF slots
- **GPS**: standalone GPS support

COR IBR350LPE-SP – 4G LTE/HSPA+/EVDO for Sprint

- **Technology**: LTE, HSPA+, EVDO Rev A
- **Downlink Rates**: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- **Uplink Rates**: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- **Frequency Bands**:
  - LTE: Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
  - HSPA+/UMTS: (850/900/1900/2100 MHz, AWS)
  - GSM/GPRS/EDGE: (850/900/1800/1900 MHz)
  - CDMA EVDO: Rev A/1xRTT (800/1900 MHz)
- **Power**: LTE 23 dBm +/- 1, HSPA+ 23 dBm +/- 1, EVDO 24 dBm +0.5/-1 (typical conducted)
- **Antennas**: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgfcm)
- **Industry Standards & Certs**: PTCRB, FCC, IC, UL
- **SIM**: two 2FF slots
- **GPS**: standalone GPS support

COR IBR350LPE-GN – 4G LTE/HSPA+/EVDO (generic – for use on T-Mobile in the U.S. and Rogers, Bell, & TELUS in Canada)

- **Technology**: LTE, HSPA+, EVDO Rev A
- **Downlink Rates**: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- **Uplink Rates**: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- **Frequency Bands**:
  - LTE: Band 2 (1900 MHz), Band 4 (AWS), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
  - HSPA+/UMTS: (850/900/1900/2100 MHz, AWS)
  - GSM/GPRS/EDGE: (850/900/1800/1900 MHz)
  - CDMA EVDO: Rev A/1xRTT (800/1900 MHz)
- **Power**: LTE 23 dBm +/- 1, HSPA+ 23 dBm +/- 1, EVDO 24 dBm +0.5/-1 (typical conducted)
- **Antennas**: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgfcm)
- **Industry Standards & Certs**: PTCRB, FCC, IC, UL
- **SIM**: two 2FF slots
- **GPS**: standalone GPS support

COR IBR350P2/IBR350P2-INTL*

- **Technology**: HSPA+
- **Downlink Rates**: HSPA+ 21 Mbps (theoretical)
- **Uplink Rates**: HSPA+ 5.76 Mbps (theoretical)
- **Frequency Bands**:
  - HSPA+/UMTS: (850/900/1900/2100 MHz)
  - GSM/GPRS/EDGE: (850/900/1800/1900 MHz)
- **Module Power**: UMTS 23dBm +/- 1 (typical conducted)
- **Module Antennas**: two SMA male (plug), 2 dBi gain; finger tighten only; maximum torque spec is 7 kgf-cm
- **Industry Standards & Certs**: PTCRB, GCF-CC, FCC, IC, CE; (others pending)
- **Model**: S3A519A
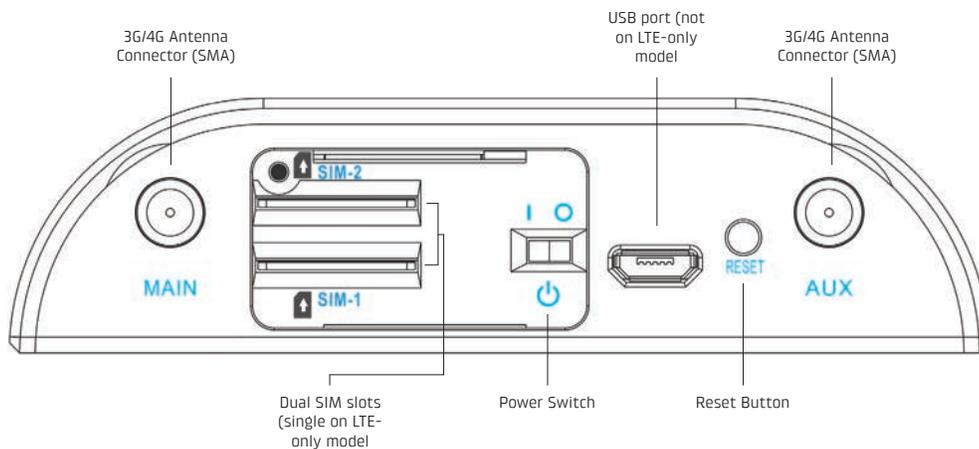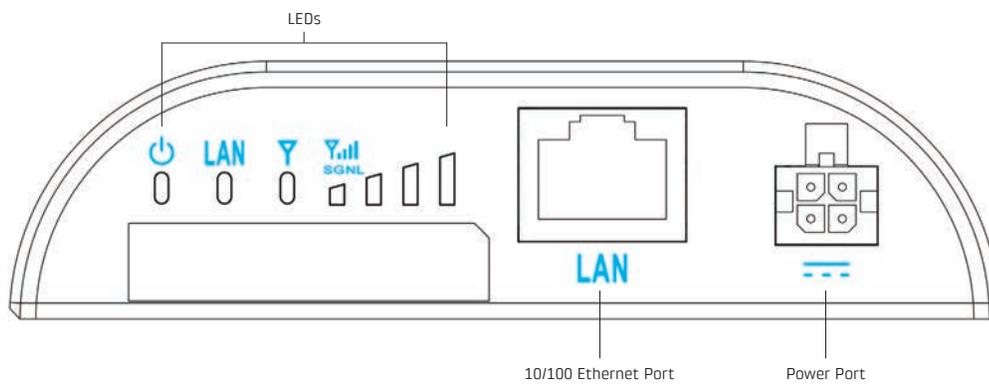- **SIM**: two 2FF slots

*-Includes International Adapter Clips (US, UK, EU, AU)

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SUPPORT AND WARRANTY

CradleCare Support available with technical support, software upgrades, and advanced hardware exchange – 1-, 3-, and 5-year options.

One-year limited hardware warranty available in the US and Canada; two-year limited hardware warranty for integrated EU products when purchased from an authorized EU distributor – extend warranty to 2, 3, or 5 years.

HARDWARE

LEDs

10/100 Ethernet Port   Power Port

3G/4G Antenna
Connector (SMA)

USB port (not
on LTE-only
model

3G/4G Antenna
Connector (SMA)

SIM-2

MAIN

SIM-1

RESET

AUX

Dual SIM slots
(single on LTE-
only model

Power Switch

Reset Button

LEDS

POWER

- Blue = Powered ON.
- No Light = Not receiving power. Check the power switch and the power source connection.
- Flashing Amber = Attention. Open the administration pages and check the router status.

LAN   ETHERNET LAN Indicates information about a data source connected to the Ethernet LAN port.

- Green = Connected to an active Ethernet WAN interface.

INTEGRATED MODEM Indicates information about the integrated modem.

- Green = Connected to integrated modem.

SIGNAL STRENGTH Blue LED bars indicate the active modem's signal strength.

- 4 Solid Bars = Strongest signal.
- 1 Blinking Bar = Weakest signal. (A blinking bar indicates half of a bar.)

ADDITIONAL LED INDICATIONS

- Several different LEDs flash when the factory reset button is detected.
- Two of the modem LEDs blink red in unison for 10 seconds when there is an error during firmware upgrade.

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