**RISING CONNECTION**

# BR1 Mini M2M
## Reliability in a small package

**peplink**

RS-232 / 485
Serial Port
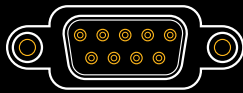
## Engineered toward Industrial Devices

Featuring an RS-232/RS-485 serial port, the BR1 Mini M2M is your best solution to bring connectivity to versatile industrial equipment and IoT devices.
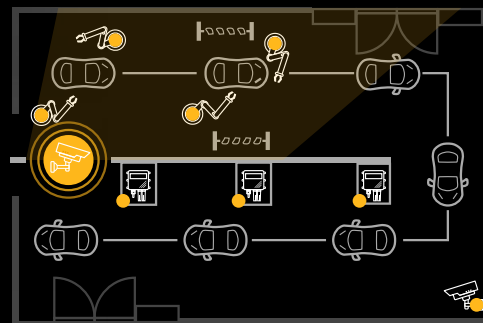
**IoT**

Quality Sensor
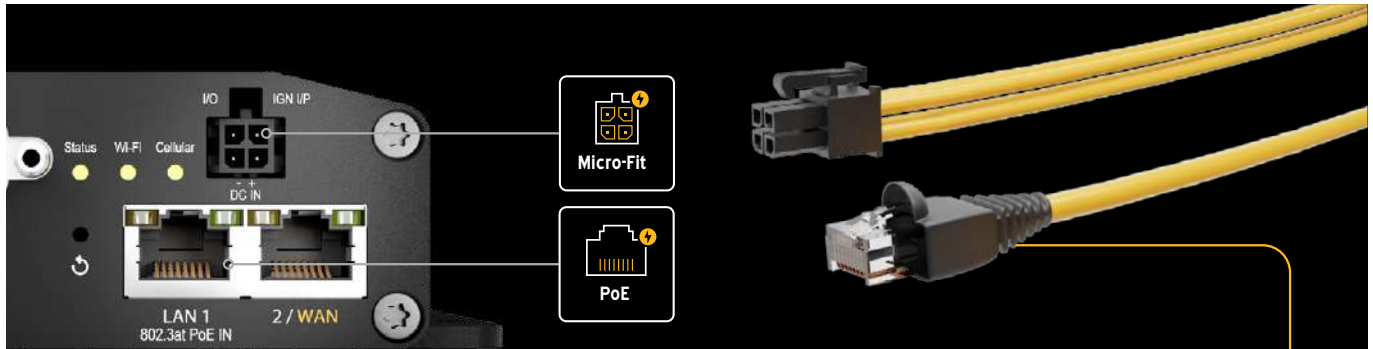
Smart Meter

POS

Video Surveillance

Robotics

Our advanced InTouch technology allows for secure remote monitoring and management of your linked industrial device through a single cloud platform.

**InTouch**

**Micro-Fit**

**PoE**

Status    Wi-Fi    Cellular

I/O    IGN I/P

DC IN

LAN 1
802.3at PoE IN

2 / WAN

## Flexibility in Power and Ports

Power the device via PoE or Micro-Fit connector, allowing for flexible installations no matter your requirements.

## Instant Connectivity

Gone are the days of agonising over which cellular service to choose or needing to manage physical SIM cards. Experience instant cellular connectivity with a subscription to our eSIM-based SFC 5G/LTE data plans. Leave the troubles to us while you concentrate on what truly matters.

**SPEEDFUSION**
Connect 5G|LTE

# RISING CONNECTION

## Improved Dual-band Wi-Fi

Deploy more devices in the same location with no worry of network congestion. Have the option to collect data from your IoT machines from afar, helping admins save time and stay safe.
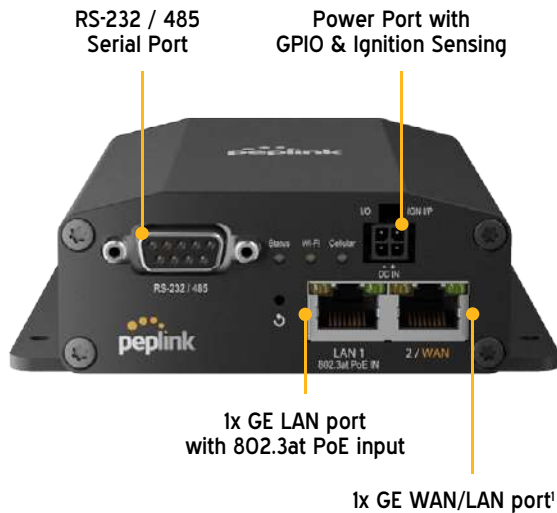
## Ruggedised and Reliable

The BR1 Mini M2M is built for maintaining a stable connection while withstanding tough environments, such as factories, power plants and outdoor deployments.

RS-232 / 485 Serial Port

Power Port with GPIO & Ignition Sensing

1x LTE Modem

Wi-Fi 5

1x GE LAN port with 802.3at PoE input

1x GE WAN/LAN port[1]

# SPECIFICATIONS

- **WAN Interface:** 1x 10/100/1000M Ethernet[1], 1x Embedded Cellular Modem with Redundant SIM Slots

- **LAN Interface:** 1x 10/100/1000M Ethernet

- **Wi-Fi Interface:** Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 5, 2X2 MIMO, Wi-Fi WAN[1] and/or AP

- **SpeedFusion Features:** Hot Failover[1] / WAN Smoothing[1] Bandwidth Bonding[1]

- **Number of SpeedFusion Peers:** 2/5[2]

- **Feature:** GPIO, Ignition Sensing, Serial communication (RS-232 / 485)

- **Router Throughput:** 300 Mbps

- **SpeedFusion VPN Throughput:** No Encryption - 80Mbps, 256-bit AES - 20 Mbps / 60Mbps[2]

- **Recommended Users:** 1-60

- **Cellular Data Rate[3] (Downlink/Uplink):** CAT-4: 150 Mbps/50 Mbps

- **Antenna Connector:** 2x SMA Cellular Antenna Connectors, 2x RP-SMA Wi-Fi Antenna Connectors, 1x SMA GPS Antenna Connector

- **Power Input:** Power Port: 10V – 30V DC, AC Adapter: AC Input 100V–240V / DC Output 12V, Power over Ethernet 802.3at

- **Power Consumption:** 13W (nominal), 18W (max.)

- **Dimensions:** 129.5 x 107 x 35 mm

- **Weight:** 455 grams

- **Operating Temperature:** -40° – 65°C

- **Humidity:** 15% – 95% (non-condensing)

- **Certifications:** FCC, IC, C1D2, PTCRB, UL+CUL (60950-1 / 62368-1)

- **SIM Card Size:** Nano-SIM (4FF)

- **Warranty:** 1-Year Limited Warranty

- **Package Content:** 1x BR1 Mini M2M, 2x LTE Antennas (ACW-235), 2x Dual Band Wi-Fi Antennas (ACW-342), 1x GPS Active Antenna (ACW-232), 1x 12V 2A 4pin Power Supply (ACW-632)

1. Enabled with a PrimeCare subscription or a feature pack add-on license.
2. Requires a PrimeCare subscription, complimentary for the first year.
3. Maximum theoretical data rate.

## ORDERING INFORMATION

| Product Code | Regions | Embedded Modem | 4G Bands | 3G Bands |
|---|---|---|---|---|
| MAX-BR1-MINI-M2M-LTE-MX-T-PRM | APAC, Latin America, Malaysia, Indonesia | 1x CAT-4 | B1, B2, B3, B4, B5, B7, B8, B28, B40 | WCDMA/HSPA+/DC-HSPA+: B1, B2, B5, B8 |

## FEATURE ADD-ON

| Product Code | Description |
|---|---|
| PRM-A-1Y / PCP-A-1Y | PrimeCare A / PrimeCare+ A (1-Year) |
| PRM-A-2Y / PCP-A-2Y | PrimeCare A / PrimeCare+ A (2-Year) |
| PRM-A-4Y / PCP-A-4Y | PrimeCare A / PrimeCare+ A (4-Year) |
| MAX-BR1-MINI-LC-FP | Feature pack for BR1 Mini M2M enables Ethernet WAN, Wi-Fi WAN, Hot Failover, WAN Smoothing and Bandwidth Bonding |
| ANT-MB-22G-S-B-6 | 5-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (Black) |
| ANT-MB-22G-S-W-6 | 5-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (White) |
| ACW-634 | 10ft DC Power Cable |
| ACW-639 | Dual Serial Y-Cable |
| ACW-DIN-BR1-MINI | DIN Rail mount kit |

## DEEP DIVE

### Software
Pepwave MAX Firmware

### WAN
Support for PPPoE, Static IP, DHCP
WAN Link Health Check
Bandwidth Allowance Monitor
Support for Dynamic DNS services
WAN Port Convertible into LAN Port

### LAN
DHCP Server for LAN Clients
Extended DHCP Option
DHCP Reservation
DNS Proxy for LAN Clients
VLAN on LAN Support

### Security
Stateful Firewall
DoS Prevention
Web Blocking

### Complete VPN Solution
SpeedFusion VPN/SpeedFusion
Hot Failover
Site-to-Site VPN
256-bit AES Encryption
Pre-shared Key Authentication
IPsec VPN (Network-to-Network)^

### Advanced QoS
Individual Bandwidth Limit
Application Prioritisation
 SIP, HTTPS, VPN QoS
 Custom Application QoS

### Captive Portal
Support for Wired and Wireless LAN clients
Support RADIUS Authentication
Time and Usage Quotas on Open Access Mode
Built-in Customisable Splash Page

### Networking
NAT and IP Forwarding
Static Routes
Port Forwarding
Many to One, One to One NAT
NAT Pool
SIP ALG, H.323 ALG
UPnP, NAT-PMP

### Device Management
Web Administrative Interface
Command Line Interface
InControl Cloud Management
Email Notification
Active Client & Session Lists
Bandwidth Usage Statistics
Syslog Service
SNMP v1, v2c and v3

^ IPsec VPN supports connection with Cisco, Juniper, Peplink, or Pepwave devices