MAX BR1 cellular router
Industrial-Grade 4G LTE/3G Router

PEPWAVE
Broadband Possibilities

Automatic Failover 4G LTE Router.

The BR1 offers redundant SIM slots with automatic switching, DC or terminal block power capability, advanced GPS fleet tracking, and remote management, all packed into a durable metal enclosure. It is also Verizon XLTE certified.
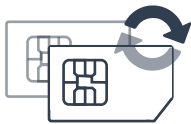
Works With
verizon **XLTE**   at&t   T··Mobile·
And worldwide 4G LTE/3G carriers

Redundant SIM Slots for Multiple Carriers.

Redundant SIM slots with automatic switching for reliable network. You can set the BR1 to automatically switch SIM cards when you're in danger of exceeding a data cap. It also allows you travel across borders without changing SIM cards manually.

Fleet Tracking and Management

With built-in GPS fleet tracking and InControl cloud-based management, you can keep tabs on location and manage your mobile network from any Internet-connected device.

Customize Captive Portal

Branding your captive portal is as easy as uploading your logo and terms & conditions. You can easily set bandwidth allowance and access duration per user or manage access using RADIUS.

SpeedFusion Hot Failover

SpeedFusion technology powers MAX BR1 for seamless failover.

Terminal Block for Secure Power Supply

MAX BR1 is equipped with a terminal block for secure power installation in vehicles and other locations.
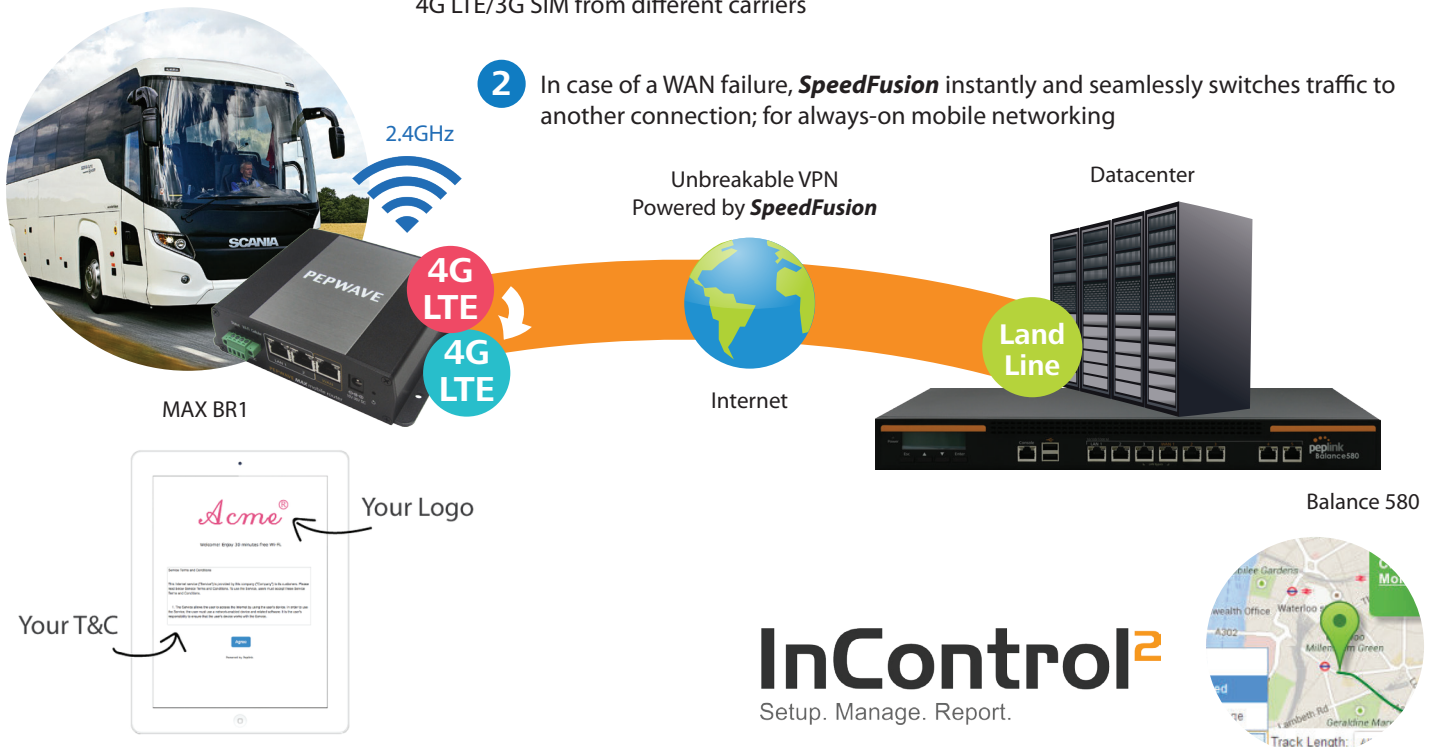
Certified Toughness

In addition to rugged metal enclosure, BR1 has certifications on:
Shock and vibration resistance (EN 61373:1999, IEC 61373:1999)
Railway applications (EN 50155)
Electromagnetic Compatibility (EN 61000)

Applications

Bus Wi-Fi - Customize Captive Portal & Fleet Managment

1 **SpeedFusion** creates an **unbreakable connection** using redundant 4G LTE/3G SIM from different carriers

2 In case of a WAN failure, **SpeedFusion** instantly and seamlessly switches traffic to another connection; for always-on mobile networking

2.4GHz

4G LTE
4G LTE

MAX BR1

Unbreakable VPN
Powered by **SpeedFusion**

Internet

Datacenter
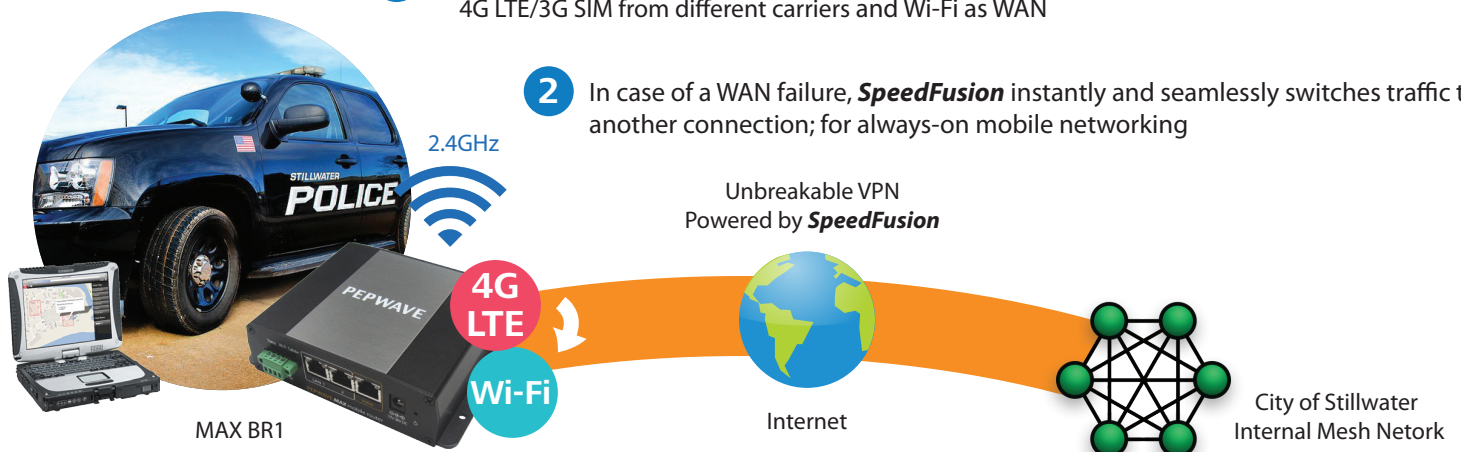
Land Line

Balance 580

Acme®

Your Logo

Your T&C

3 Customize captive portal for passengers as easy as uploading your logo and terms & conditions. You can easily set bandwidth allowance and per user access duration or manage access using RADIUS or LDAP servers

InControl²
Setup. Manage. Report.

Track Length:

4 InControl 2 provides complete cloud-based device management, monitoring, and reporting and let you check vehicle speed, view cellular coverage, and play back route histories in real-time

First Responders – Fast and Reliable Mobile Networking

1 **SpeedFusion** creates an **unbreakable connection** using redundant 4G LTE/3G SIM from different carriers and Wi-Fi as WAN
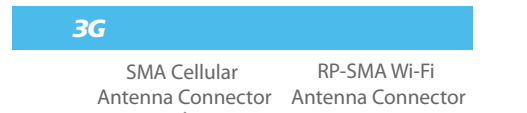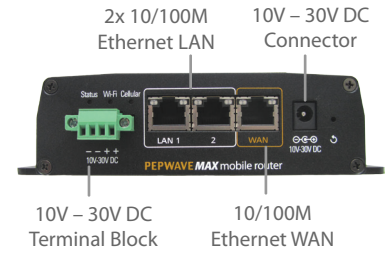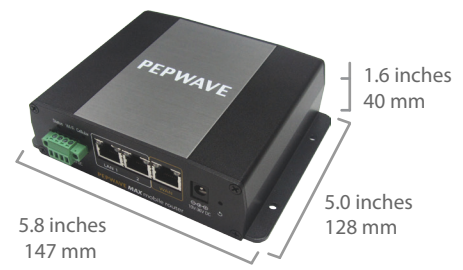
2 In case of a WAN failure, **SpeedFusion** instantly and seamlessly switches traffic to another connection; for always-on mobile networking

2.4GHz

Unbreakable VPN
Powered by **SpeedFusion**

4G LTE
Wi-Fi

MAX BR1

Internet

City of Stillwater
Internal Mesh Netork

3 Unbreakable VPN powers uninterrupted communication and resource access

Specifications

	MAX BR1
WAN Interface	1x USB Interface 1x FE Embedded LTE/3G Modem with Redundant SIM Slot
LAN Interface	2x FE
Wi-Fi Interface	802.11b/g/n 300 Mbps Wi-Fi WAN and/or AP
Router Throughput	100Mbps
Cellular and GPS Antenna Connector	2x SMA Antenna Connectors 1x SMA GPS Antenna Connector 1x Wi-Fi Connector
Power Input	DC Jack/Terminal Block: 12V – 48V DC
Power Consumption	16W (max.)
Dimensions	5.8 x 5.0 x 1.6 inches 147 x 128 x 40 mm
Weight	0.96 pound 435 grams
Operating Temperature	-40° – 149°F -40° – 65°C
Humidity	15% – 95% (non-condensing)
Certifications	FCC, CE, RoHS, E-Mark RF Port Lighting Immunity: ITU-T K.20 (+/- 1.5 kV) EN 61373:1999 IEC 61373:1999 : Shock and Vibration Resistance EN 50155: Railway Applications EN 61000: Electromagnetic Compatibility
Warranty	1-Year Limited Warranty

1.6 inches
40 mm

5.8 inches
147 mm

5.0 inches
128 mm

2x 10/100M
Ethernet LAN

10V – 30V DC
Connector

10V – 30V DC
Terminal Block

10/100M
Ethernet WAN

4G LTE

SMA Cellular
Antenna Connectors

SMA GPS Antenna
Connector

RP-SMA Wi-Fi
Antenna Connector

3G

SMA Cellular
Antenna Connector

RP-SMA Wi-Fi
Antenna Connector

SMA GPS Antenna
Connector

Redundant
Cellular SIM Slots

Ordering Information

	Product Code	Carrier	Embedded Modem	4G Bands/Frequencies (MHz)	3G Bands/Frequencies (MHz)
4G LTE	MAX-BR1-LTE-US-T	Verizon/AT&T/T-Mobile	1	4G LTE: B2/1900, B4/AWS (XLTE), B5/850, B13/700, B17/700, B25/1900	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B4/AWS, B5/850, B8/900 EV-DO Rev.A: BC0/800, BC1/1900, BC10/800
4G LTE	MAX-BR1-LTE-E-T	Europe/International	1	4G LTE: B1/2100, B3/1800, B7/2600, B8/900, B20/800	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/2100, B2/1900, B5/850, B6/800, B8/900
3G	MAX-BR1-T	Worldwide	1	-	WCDMA/HSDPA/HSUPA/HSPA+: B1/2100, B2/1900, B5/850, B6/800, B8/900 EDGE/GPRS/GSM: B2/1900, B3/1800, B5/850, B8/900 EV-DO Rev. A: BC0/800, BC1/1900
3G	MAX-BR1-AE-T	Worldwide	1	-	WCDMA/HSDPA/HSUPA/HSPA+: B1/2100, B2/1900, B5/850, B6/800, B8/900 EDGE/GPRS/GSM: B2/1900, B3/1800, B5/850, B8/900

Add-on Feature

Product Code	Product Name	Description
MAX-BR1-ADV	Advanced Feature Pack	Package includes a software license key for Advanced Car-Fi Roaming; and SpeedFusion and IPsec X.509 Certificate Support

Features

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 Options
DHCP Reservation
DNS Proxy for LAN Clients
VLAN on LAN Support

Security
Stateful Firewall
DoS Prevention
Web Blocking

Load Balancing
Intelligent Failover
Session Persistence
Per-Service Load Distribution
Multiple Algorithms

Complete VPN Solution
PepVPN/SpeedFusion Hot Failover
  Site-to-Site VPN
  Hot Failover
  256-bit AES Encryption
  Pre-shared Key Authentication
  Dynamic Routing
  X.509 Certificate Support*
IPsec VPN (Network-to-Network)
  X.509 Certificate Support*

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

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

Advanced QoS
Individual Bandwidth Limit
Application Prioritization
  SIP, HTTPS, VPN QoS
  Custom Application QoS

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

#Available as optional feature.

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