

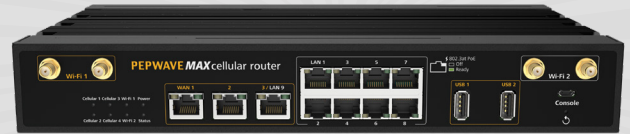
ESN Series

ESN Certified Routers for Emergency Services



Approved for UK Public Safety

Peplink has three routers certified for use in UK's Emergency Services Network (ESN): the HD2 MBX, the HD4 MBX and the BR1 ESN. These routers have been approved for use in the country's fleet of first responder and emergency service vehicles.



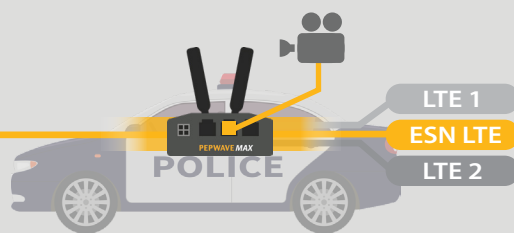
Achieve Unbreakable Connectivity

Use our patented SpeedFusion technology to combine ESN and commercial links into an unbreakable VPN connection that stays up even if a link goes down. As traffic goes from one WAN to the next, your session will continue streaming without any interruption. SpeedFusion also has greater coverage and bandwidth than that of a single cellular link.

Videos/DVRs



Datacenter FusionHub

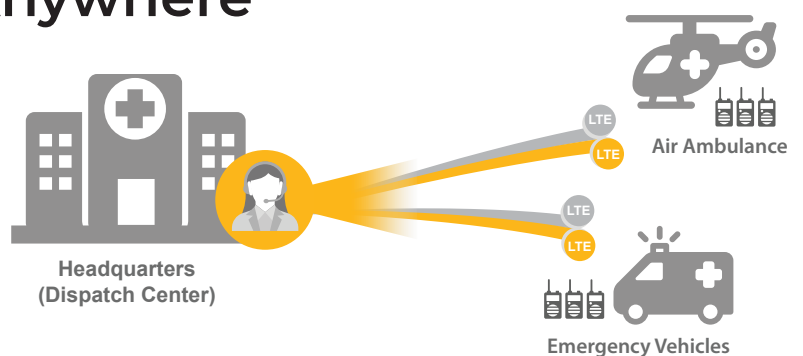


Police Car / ESN Devices

Currently, first responders can only record video on site; live streaming remains a challenge. Use SpeedFusion to bond multiple cellular links into a powerful VPN connection that can stream HD video back to headquarters. WAN Smoothing technology ensures that your video stream remains consistent and uninterrupted even as traffic moves between different WAN links.

Extend 2-Way Radios Anywhere

Previously, 2-way radios such as LMR, P.25, TETRA, NXDN, and DMR only worked with other radios connected to the same repeater. With SpeedFusion, they become a single unbreakable network. This extends the reach of existing 2-way radio networks to anywhere an LTE or other IP network is available.



MAX HD2/HD4 MBX

Upgradable Multi-Cellular Gigabit LTE Powerhouse

Specifications



HD2 / HD4 MBX (CAT-18)

WAN Interface	2x USB Interface 3x GE*
LAN Interface	9x GE*
Wi-Fi Interface	802.11ac/a/b/g/n, 1166 Mbps 2x2 MIMO Wi-Fi WAN and/or AP Simultaneous Dual-Band
Router Throughput	2.5 Gbps
PepVPN Throughput (No Encryption)	600 Mbps
PepVPN Throughput (256-bit AES)	500 Mbps
LTE-A Pro Modems	Downlink/Uplink Datarate: 1.2 Gbps/150 Mbps
Recommended Users	50-500

Cellular and GPS Antenna Connector	HD2 MBX: 8x SMA Antenna Connectors + 1x SMA GPS Antenna Connector HD4 MBX: 16x QMA Antenna Connectors + 1x QMA GPS Antenna Connector 4x RP-SMA Wi-Fi Antenna Connectors
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Power Input	DC Jack/Terminal Block: 12-56 V#
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Power Output	Up to Eight 802.3at PoE Outputs#
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Power Consumption	55 W (max.)
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Dimensions	2.0 x 11.5 x 7.0 inches 50 x 292 x 177 mm
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Weight	7.28 pounds 3.3 kg
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Operating Temperature	-40 ° – 149 °F -40 ° – 65 °C
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Humidity	15% – 95% (non-condensing)
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Certifications	FCC, CE, RoHS, E-Mark, PTCRB, Shock and Vibration Resistance: EN 61373:1999 IEC 61373:1999 Railway Applications: EN 50155 Electromagnetic Compatibility: EN 61000 ESN (Emergency Services Network)
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Warranty	1-Year Limited Warranty
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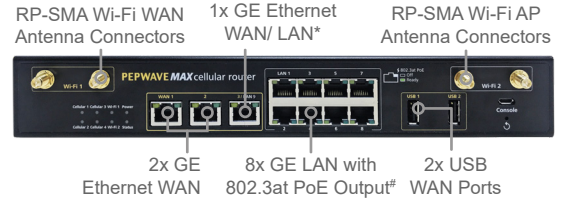
Package Content MAX HD2 MBX (CAT-18)	MAX HD2 MBX, PSU (ACW-630), 4x Dual Band Wi-Fi Antennas (ACW-341), 1x GPS Active Antenna (ACW-232), 8x 2dBi 4G LTE Antennas (ACW-813), 1 Pair of Mounting Brackets (ACW-731), 1x SIM Cover
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Package Content MAX HD4 MBX (CAT-18)	MAX HD4 MBX, PSU (ACW-630), 1x GPS Antenna (ACW-232), 1x QMA to SMA Adaptor, 1 Pair of Mounting Brackets (ACW-731), 2x SIM Cover
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HD2/4 MBX (CAT-18)

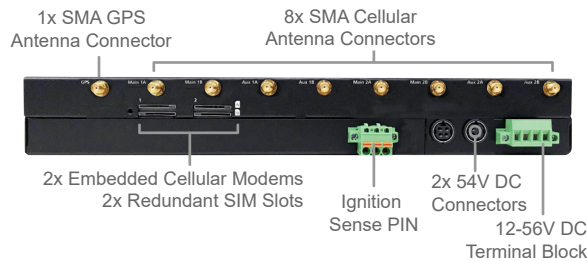


Front

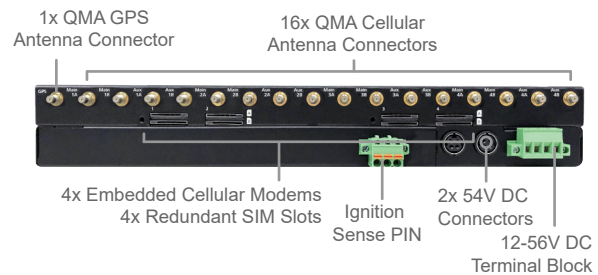


Back

HD2 MBX (CAT-18)



HD4 MBX (CAT-18)



* WAN 3 is configured as a LAN port by default, configuration is changeable on the Web Admin.

2x 54V DC input is needed for all 8x LAN ports to have 802.3at PoE. Plugging in 1x 54V DC input will result in 4x LAN ports having 802.3at PoE.

Ordering Information

	Product Code	Description	Carrier/Category	Embedded Modems	4G Bands	3G Bands
LTE-A Pro	MAX-HD2-MBX-GLTE-G-T	Includes 1x 54 V Power Supply and PoE License. Enables 4x 802.3at PoE Output Ports	Global / ESN / CAT-18	2	B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(17), B13, B14, B20, B28, B29, B30, B32, B71, B38, B39, B40, B41, B42, B43, B46, B48	B1, B2, B4, B5(B19), B8
	MAX-HD4-MBX-GLTE-G-T	Includes 1x 54 V Power Supply and PoE License. Enables 4x 802.3at PoE Output Ports	Global / ESN / CAT-18	4	B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(17), B13, B14, B20, B28, B29, B30, B32, B71, B38, B39, B40, B41, B42, B43, B46, B48	B1, B2, B4, B5(B19), B8

Accessories

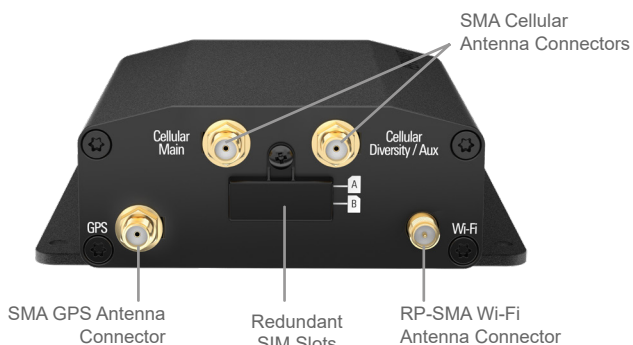
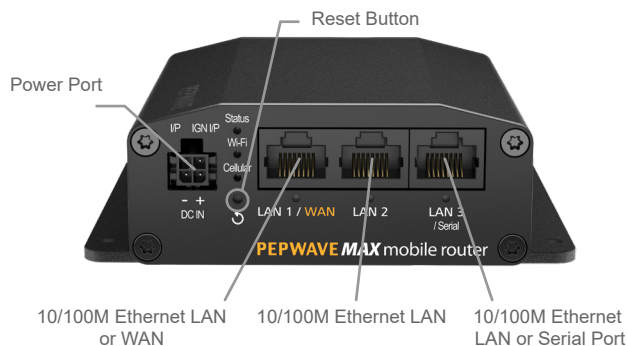
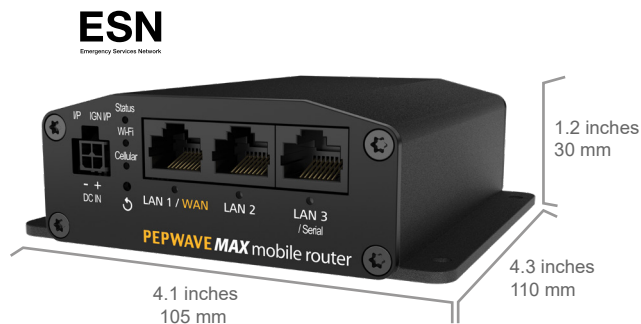
Product Code	Description
ACW-630	Includes 1x 54V, 3.34A Power Supply Enable 4x LAN with 802.3at PoE output (PoE License automatically applied after kit purchase)
ACW-633	Includes 2x 54V, 3.34A Power Supply Enables 8x LAN with 802.3at PoE output (PoE License automatically applied after kit purchase)
MAX-HD-020-SPF	Supports up to 20 PepVPN/SpeedFusion Peers
SIM-BK8-4E-56V	SIM Injector, 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC

MAX BR1 ESN

ESN certified Single Cellular Router

Specifications

BR1 ESN	
Cellular WAN Interfaces	Single LTE Modem
Redundant SIM Slot	●
SpeedFusion Hot Failover	● [^]
Number of PepVPN SpeedFusion Peers	5 [#]
WAN Interface	1x 10/100M Ethernet Port #
LAN Interface	3x 10/100M Ethernet Port # (1x WAN Port shared with LAN Interface) (1x Serial Port shared with LAN Interface)
Load Balancing/Failover	●
Stateful Firewall Throughput	100Mbps
Recommended Users	60
LTE Modem	Downlink/Uplink Datarate: 600Mbps/150Mbps
Wi-Fi Standard	802.11b/g/n Wi-Fi WAN or AP
Antenna Connectors	2x SMA Cellular, 1x SMA GPS, 1x RP-SMA Wi-Fi
Power Input	Passive PoE Input (WAN Port, 12V – 28V DC) / Power + GPIO
Power Consumption	12W (max.)
Dimensions	4.1 x 4.3 x 1.2 inches 105 x 110 x 30 mm
Weight	0.54 pound 244 grams
Operating Temperature	-40° – 149°F -40° – 65°C
Humidity	15% – 95% (non-condensing)
Warranty	1-Year Limited Warranty
Certifications	CE, ROHS, ESN
Package Content	MAX BR1 ESN 12V2A 4-Pin Power Supply, 1x 5dBi Wi-Fi Antenna (2.4G), 1x GPS Antenna, 2x 2dBi 4G LTE Antennas (4G LTE)



[^] Failover software license is required to activate SpeedFusion Failover feature and enable Ethernet and Wi-Fi WAN.

[#] 2 PepVPN Peers are enabled by default. Can be increased to 5 Peers using license PVN-LC-05.

Ordering Information

	Product Code	Carrier/Region	Standard	4G Bands	3G Bands
LTEA	MAX-BR1-ESN-LTEA-K-T	Global* / ESN / CAT-12	LTE Advanced	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B29, B30, B32, B41, B42, B43, B46, B48, B66	HSPA+: B1, B2, B4, B5, B6, B8, B9, B19

* China & HK TD LTE are excluded.

Accessories

Product Code	Description
MAX-BR1-ADV	Advanced Feature Package includes a software license key for X.509 Certificate Support (SpeedFusion and IPsec)
PVN-LC-05	PepVPN License Key, enables up to 5 PepVPN peers
MAX-LC-DIM	Activate the Drop-in Mode for the MAX BR1 Series
MAX-BR1-MINI-LC-FS	Failover software license and related feature set for BR1MINI and BR1 ESN, enables Ethernet and Wi-Fi WAN.