MBX 5G

5G Quad Cellular Mobile Powerhouse
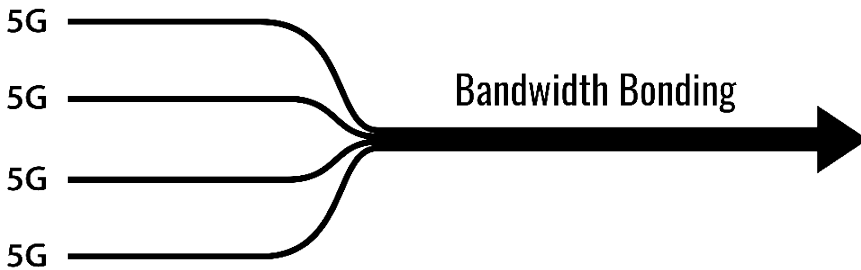
peplink

Best of both worlds

MBX 5G is a quad cellular mobile powerhouse with redundant SIM slots and multi-radio capabilities providing speed, reliability, and coverage by combining the best of 5G and LTE.

Portability

Its compact form allows it to be deployed in a wide variety of situations such as vehicles, vessels, and branch networks.
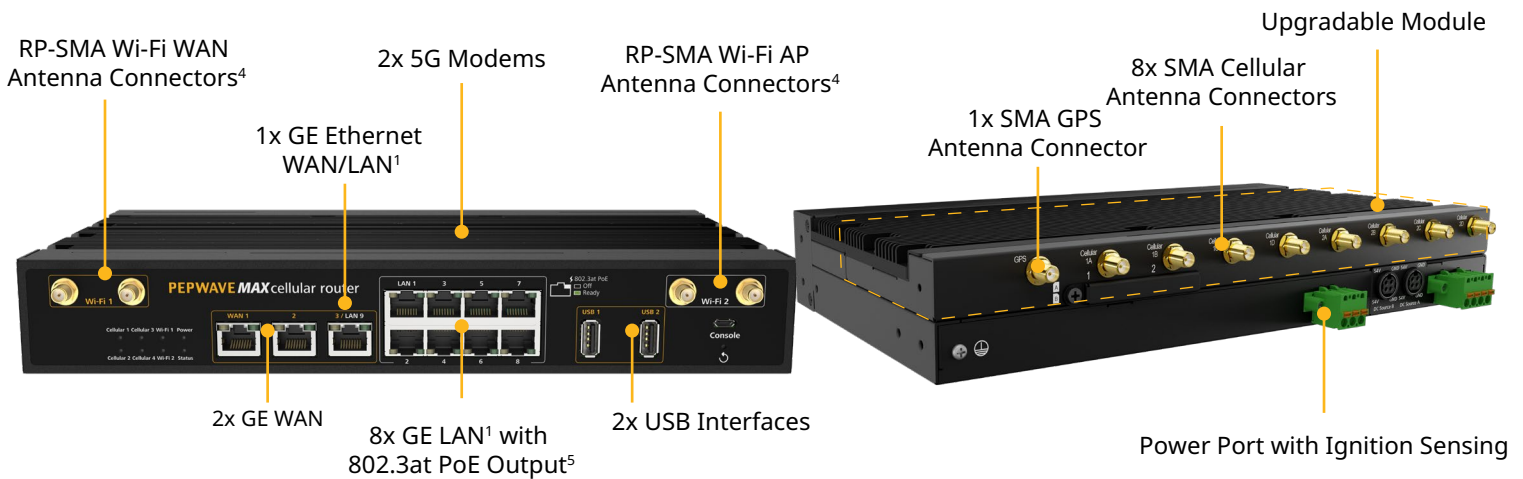
Compatibility with SIM injector

Its compatibility allows for upgradable modules for further customization to suit any deployment needs.

5G
5G
5G
5G

Bandwidth Bonding

Optimize your traffic
Whether you need speed or cost-effectiveness, use Traffic Steering to guide each packet to the most suitable connection.

HD2 MBX 5G

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RP-SMA Wi-Fi WAN
Antenna Connectors[4]

1x GE Ethernet
WAN/LAN[1]

2x 5G Modems

RP-SMA Wi-Fi AP
Antenna Connectors[4]

1x SMA GPS
Antenna Connector

8x SMA Cellular
Antenna Connectors

Upgradable Module

2x GE WAN

8x GE LAN[1] with
802.3at PoE Output[5]

2x USB Interfaces

Power Port with Ignition Sensing

Specifications

WAN Interface	3x 10/100/1000M Ethernet [1] 2x Embedded Cellular Modems with Redundant SIM Slots 2x USB Interface	**Antenna Connectors**	8x SMA Cellular Antenna Connectors 4x RP-SMA Wi-Fi Antenna Connectors [4] 1x SMA GPS Antenna Connector
LAN Interface	9x 10/100/1000M Ethernet [1]	**Power Input**	Power Port: 12V – 56V DC AC Adapter: AC Input 100V–240V / DC Output 12V Terminal Block: 12V – 56V DC
Wi-Fi Interface	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 5 2x2 MIMO Wi-Fi WAN and/or AP	**Power Output**	Up to Eight 802.3at PoE Outputs [5]
SpeedFusion Features	Hot Failover, WAN Smoothing, Bandwidth Bonding	**Power Consumption**	55W (max.)
Number of PepVPN SpeedFusion Peers	2 / 20 [2]	**Dimensions**	1.7 x 11.5 x 7.0 inches / 43 x 292 x 177 mm
Features	Ignition Sensing	**Weight**	7.28 pounds / 3.3 kg
Router Throughput	2.5Gbps	**Operating Temperature**	-40° – 149°F / -40° – 65°C
SpeedFusion Throughput (No Encryption)	600 Mbps	**Humidity**	15% – 95% (non-condensing)
SpeedFusion Throughput (256-bit AES)	500 Mbps	**Certifications**	FCC, CE, RoHS E-Mark EN61373 Shock and Vibration Resistance EN50155 Railway Applications - Electronic Equipment used on Rolling Stock EN61000 Electromagnetic Compatibility
Recommended Users	50-500		
Cellular Data Rate [3] (Downlink / Uplink)	5G: 4 Gbps / 700 Mbps CAT-20: 2 Gbps / 150 Mbps	**Package Content**	1x MAX HD2 MBX 8x LTE Antennas (ACW-813) 4x Wi-Fi Dual Band Antenna (ACW-341) 1x GPS Active Antenna (ACW-232) 1x Power Supply (ACW-630) 1x 3pin Terminal Block Connector (Ignition sense) 1x 4pin Terminal Block Connector (Power supply) 1x Grounding Cable & Rubber Foot Pad Set 1 Pair of Mounting Brackets (ACW-513)
		Warranty	1-Year Limited Warranty

[1] WAN 3 is configured as a LAN port by default, configuration is changeable on the Web Admin.
[2] 2 PepVPN Peers are enabled by default. Requires a license to increase the maximum number of PepVPN Peers. Several options are available based on the model 5, 10 or 20 peers (PVN-LC-05, PVN-LC-10, PVN-LC-20)
[3] Maximum theoretical data rates.
[4] For the best performance and reliability, all 4 RF connectors must be connected to the same type and performance antennas.
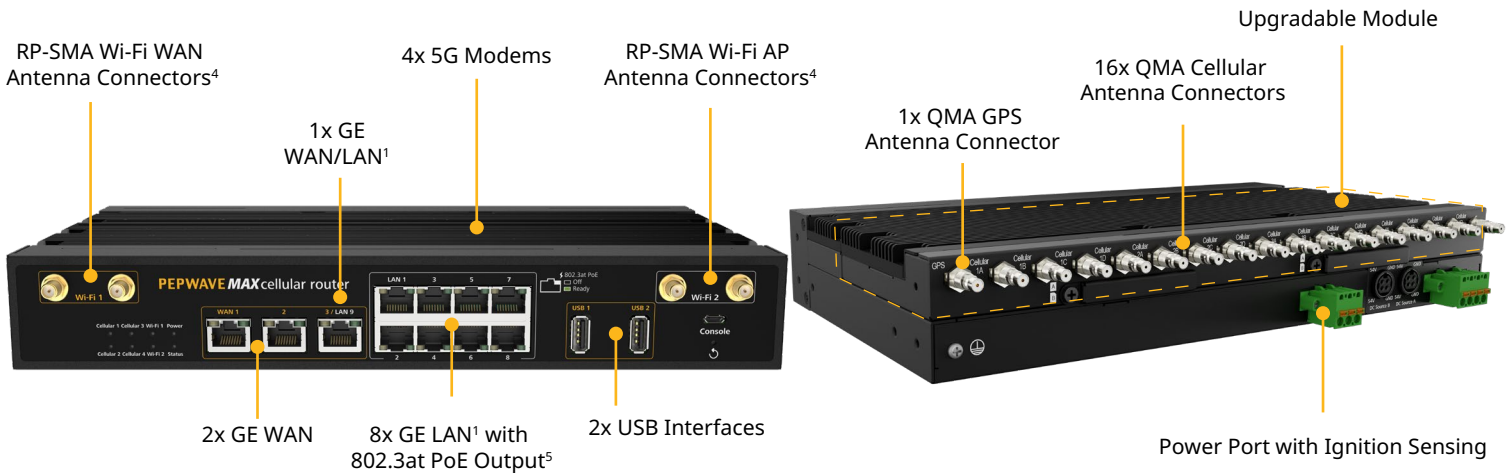[5] 2x 54V DC input is needed for all 8x LAN ports to have 802.3at PoE. Plugging in 1x 54V DC input will result in 4x LAN ports having 802.3at PoE.

HD2 MBX 5G

Ordering Information

Product Code	Regions	5G Bands	LTE Bands
MAX-HD2-MBX-5GD-T Embedded Modem(s): **2x 5G**	Primary: APAC & EMEA Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71
MAX-HD2-MBX-5GH-T Embedded Modem(s): **2x 5G**	Primary: North America* Compatibility: Global *US Carrier Certifications: **AT&T, T-Mobile, US Cellular**	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71

Featured Add-ons

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
SFN-LC-50	Up to 50 SpeedFusion Bonding License Key for MAX HD2/HD4 MBX 5G
SIM-BK8-4E-56V	SIM Injector, 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC
ANT-MB-42G-S-B-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (Black)
ANT-MB-42G-S-W-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (White)

HD4 MBX 5G

peplink

RP-SMA Wi-Fi WAN
Antenna Connectors[4]

1x GE
WAN/LAN[1]

4x 5G Modems

RP-SMA Wi-Fi AP
Antenna Connectors[4]

1x QMA GPS
Antenna Connector

16x QMA Cellular
Antenna Connectors

Upgradable Module

2x GE WAN

8x GE LAN[1] with
802.3at PoE Output[5]

2x USB Interfaces

Power Port with Ignition Sensing

Specifications

WAN Interface	3x 10/100/1000M Ethernet [1] 2x Embedded Cellular Modems with Redundant SIM Slots 2x USB Interface	**Antenna Connectors**	16x QMA Cellular Antenna Connectors 4x RP-SMA Wi-Fi Antenna Connectors [4] 1x QMA GPS Antenna Connector
LAN Interface	9x 10/100/1000M Ethernet [1]	**Power Input**	Power Port: 12V – 56V DC AC Adapter: AC Input 100V–240V / DC Output 12V Terminal Block: 12V – 56V DC
Wi-Fi Interface	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 5 2x2 MIMO Wi-Fi WAN and/or AP	**Power Output**	Up to Eight 802.3at PoE Outputs [5]
		Power Consumption	55W (max.)
SpeedFusion Features	Hot Failover, WAN Smoothing, Bandwidth Bonding	**Dimensions**	1.7 x 11.5 x 7.0 inches / 43 x 292 x 177 mm
Number of PepVPN SpeedFusion Peers	2 / 20 [2]	**Weight**	7.28 pounds / 3.3 kg
Features	Ignition Sensing	**Operating Temperature**	-40° – 149°F / -40° – 65°C
Router Throughput	2.5Gbps	**Humidity**	15% – 95% (non-condensing)
SpeedFusion Throughput (No Encryption)	600 Mbps	**Certifications**	FCC, CE, RoHS E-Mark EN61373 Shock and Vibration Resistance EN50155 Railway Applications - Electronic Equipment used on Rolling Stock EN61000 Electromagnetic Compatibility
SpeedFusion Throughput (256-bit AES)	500 Mbps		
Recommended Users	50-500	**Package Content [6]**	1x MAX HD4 MBX 4x Wi-Fi Dual Band Antennas (ACW-341) 1x QMA to SMA Adapter (For GPS) 1x GPS Active Antenna (ACW-232) 1x Power Supply (ACW-630) 1x 3pin Terminal Block Connector (Ignition sense) 1x 4pin Terminal Block Connector (Power supply) 1x Grounding Cable & Rubber Foot Pad Set 1 Pair of Mounting Brackets (ACW-513)
Cellular Data Rate [3] (Downlink / Uplink)	5G: 4 Gbps / 700 Mbps CAT-20: 2 Gbps / 150 Mbps		
		Warranty	1-Year Limited Warranty

[1] WAN 3 is configured as a LAN port by default, configuration is changeable on the Web Admin.
[2] 2 PepVPN Peers are enabled by default. Requires a license to increase the maximum number of PepVPN Peers. Several options are available based on the model 5, 10 or 20 peers (PVN-LC-05, PVN-LC-10, PVN-LC-20)
[3] Maximum theoretical data rates.
[4] For the best performance and reliability, all 4 RF connectors must be connected to the same type and performance antennas.
[5] 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.
[5] Cellular antennas not included. To enhance the MBX, Peplink antennas are recommended.

HD4 MBX 5G

Ordering Information

Product Code	Regions	5G Bands	LTE Bands
MAX-HD4-MBX-5GD-T Embedded Modem(s): **4x 5G**	Primary: APAC & EMEA Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71
MAX-HD4-MBX-5GH-T Embedded Modem(s): **4x 5G**	Primary: North America* Compatibility: Global *US Carrier Certifications: **AT&T, T-Mobile, US Cellular, Verizon**	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71

Featured Add-ons

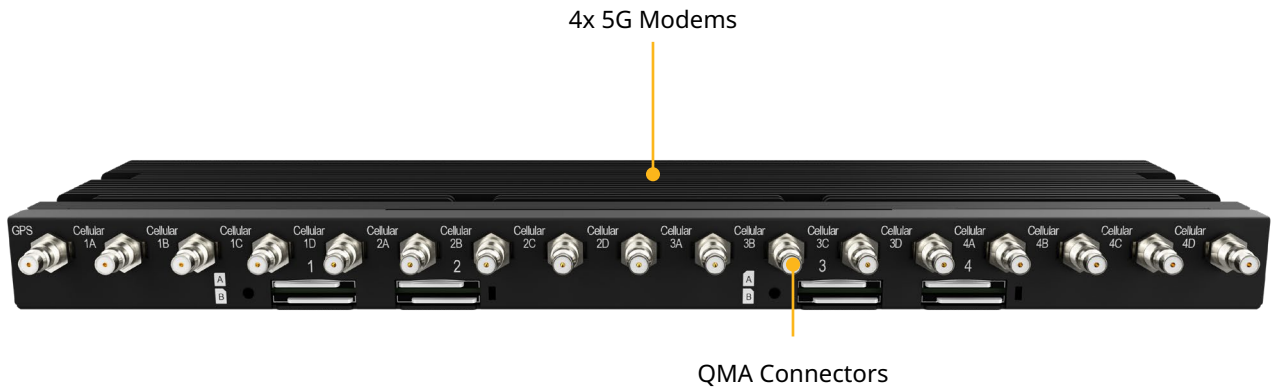| Product Code	Description
ACW-630	Includes 1x 54V, 3.34A Power Supply Enable 4x LAN with 802.3at PoE output (PoE License automatically applied after kit purchase)
ACW-633	Includes 2x 54V, 3.34A Power Supply Enables 8x LAN with 802.3at PoE output (PoE License automatically applied after kit purchase)
MAX-HD-020-SPF	Supports up to 20 PepVPN/SpeedFusion Peers
SFN-LC-50	Up to 50 SpeedFusion Bonding License Key for MAX HD2/HD4 MBX 5G
SIM-BK8-4E-56V	SIM Injector, 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC
ANT-MB-42G-S-B-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (Black)
ANT-MB-42G-S-W-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (White)

Expansion Module for HD2 MBX

2x 5G Modems

SMA Connectors

Specifications

Interface	2x Embedded Cellular Modems with Redundant SIM Slots	**Dimensions**	0.9 x 11.5 x 3.5 inches / 22 x 292 x 88 mm
Antenna Connectors	8x SMA Antenna Connectors 1x SMA GPS Antenna Connectors	**Weight**	2.2 pounds / 1 kg
Cellular Data Rate [1] (Downlink / Uplink)	5G: 4 Gbps / 700 Mbps CAT-20: 2 Gbps / 150 Mbps		

Ordering Information

Product Code	Regions	5G Bands	LTE Bands
EXM-MBX-T2-5GD Embedded Modem(s): **2x 5G**	Primary: APAC & EMEA Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71
EXM-MBX-T2-5GH Embedded Modem(s): **2x 5G**	Primary: North America Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71

[1] Maximum theoretical data rates.

Expansion Module for HD4 MBX

4x 5G Modems

QMA Connectors

Specifications

Interface	4x Embedded Cellular Modems with Redundant SIM Slots	**Dimensions**	0.9 x 11.5 x 3.5 inches / 22 x 292 x 88 mm
Antenna Connectors	16x QMA Antenna Connectors 1x QMA GPS Antenna Connectors	**Weight**	2.2 pounds / 1 kg
Cellular Data Rate [1] (Downlink / Uplink)	5G: 4 Gbps / 700 Mbps CAT-20: 2 Gbps / 150 Mbps		

Ordering Information

Product Code	Regions	5G Bands	LTE Bands
EXM-MBX-T4-5GD Embedded Modem(s): **4x 5G**	Primary: APAC & EMEA Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n7, n8, n12, n20, n28, n38, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71
EXM-MBX-T4-5GH Embedded Modem(s): **4x 5G**	Primary: North America Compatibility: Global	**5G (NSA) Sub 6Ghz** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B46, B48, B66, B71

[1] Maximum theoretical data rates.