

# MBX 5G

5G Quad Cellular Mobile Powerhouse

peplink | PEPWAVE

## Best of both worlds

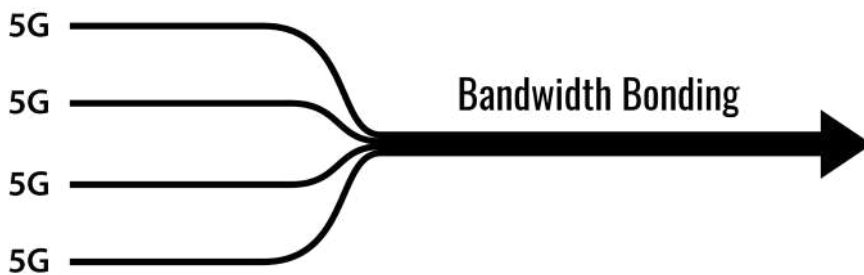
MBX 5G is a quad cellular mobile powerhouse with redundant SIM slots and multi-radio capabilities providing speed, reliability, and coverage by combining the best of 5G and LTE.

## 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

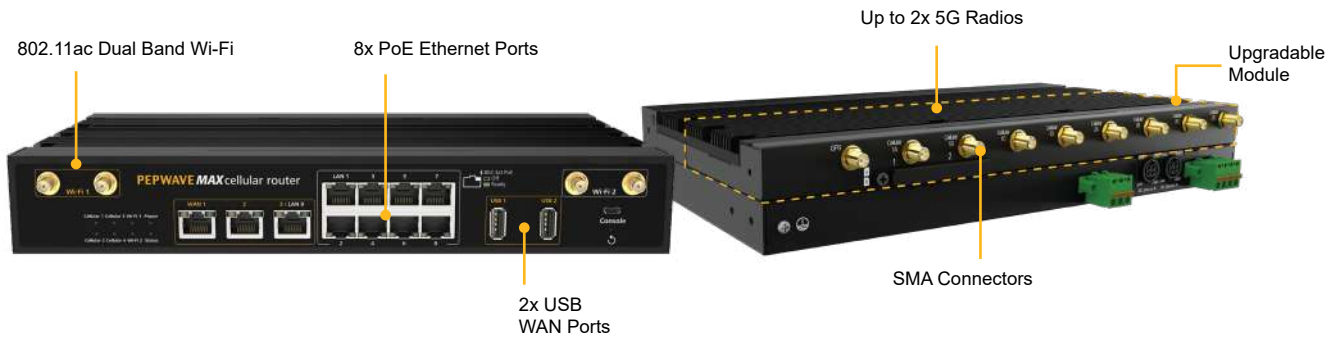
Its compatibility allows for upgradable modules for further customization to suit any deployment needs.



## 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<sup>+</sup>



## Specifications

<b>WAN Interface</b>	2x Embedded Cellular Modems with Redundant SIM Slots 3x GE* 2x USB 2.0 Interface	<b>Power Output</b>	Up to Eight 802.3at PoE Outputs*
<b>LAN Interface</b>	9x GE*	<b>Power Consumption</b>	55 W (max.)
<b>Wi-Fi Interface</b>	802.11ac/a/b/g/n, 1166 Mbps 2x2MIMO Wi-Fi WAN and/or AP Simultaneous Dual-Band	<b>Dimensions</b>	1.7 x 11.5 x 7.0 inches 43 x 292 x 177 mm
<b>Router Throughput</b>	2.5 Gbps	<b>Weight</b>	7.28 pounds 3.3 kg
<b>PepVPN Throughput (No Encryption)</b>	600 Mbps	<b>Operating Temperature</b>	-40°– 149 °F -40°– 65 °C
<b>PepVPN Throughput (256-bit AES)</b>	500 Mbps	<b>Humidity</b>	15%–95% (non-condensing)
<b>5G Cellular Data Rate® (Downlink/Uplink)</b>	5G: 4 Gbps / 700 Mbps LTE CAT-20: 2 Gbps / 150 Mbps	<b>Certifications</b>	FCC, CE, RoHS, E-Mark, PTCRB, Shock and Vibration Resistance: EN 61373:1999 IEC 61373:1999 Railway Applications: EN 50155 Electromagnetic Compatibility: EN 61000
<b>Recommended Users</b>	50-500	<b>Package Content</b>	MAX HD2 MBX, PSU 180W (ACW-630), 4x Dual Band Wi-Fi Antennas (ACW-341), 1x GPS Antenna (ACW-232), 8x Cellular Antennas (ACW-235), 1 Pair of Mounting Brackets (ACW-513), 3pin Terminal Block Connector (Ignition sense), 4pin Terminal Block Connector (Power supply), Grounding cable, Rubber Foot Pad set
<b>Antenna Connectors</b>	8x SMA Cellular Antenna Connectors 1x SMA GPS Antenna Connector 4x RP-SMA Wi-Fi Antenna Connectors		
<b>Power Input</b>	DC Jack/Terminal Block: 12-56 V#		

## Ordering information

Product Code	Description	Embedded Modems	Carrier/Categories	5G Bands	LTE Bands
MAX-HD2-MBX-5GD-T	HD2 MBX 5G with 2x 5G modems	2	Global/5G	<b>5G (NSA) Sub 6Ghz:</b> 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

## Custom Options

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 MBX 5G
SIM-BK8-4E-56V	SIM Injector, 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC
ANT-MB-42G-S-W-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (White)
ANT-MB-42G-S-B-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (Black)

\*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.  
@Theoretical maximum data rates.  
Available globally. Regional and carrier certification is subject to local approval.

# HD4 MBX 5G<sup>®</sup>



## Specifications

<b>WAN Interface</b>	4x Embedded Cellular Modems with Redundant SIM Slots 3x GE* 2x USB 2.0 Interface	<b>Power Output</b>	Up to Eight 802.3at PoE Outputs <sup>#</sup>
<b>LAN Interface</b>	9x GE*	<b>Power Consumption</b>	55 W (max.)
<b>Wi-Fi Interface</b>	802.11ac/a/b/g/n, 1166 Mbps 2x2MIMO Wi-Fi WAN and/or AP Simultaneous Dual-Band	<b>Dimensions</b>	1.7 x 11.5 x 7.0 inches 43 x 292 x 177 mm
<b>Router Throughput</b>	2.5 Gbps	<b>Weight</b>	7.28 pounds 3.3 kg
<b>PepVPN Throughput (No Encryption)</b>	600 Mbps	<b>Operating Temperature</b>	-40°– 149°F -40°– 65°C
<b>PepVPN Throughput (256-bit AES)</b>	500 Mbps	<b>Humidity</b>	15%–95% (non-condensing)
<b>5G Cellular Data Rate<sup>@</sup> (Downlink/Uplink)</b>	5G: 4 Gbps / 700 Mbps LTE CAT-20: 2 Gbps / 150 Mbps	<b>Certifications</b>	FCC, CE, RoHS, E-Mark, PTCRB, Shock and Vibration Resistance: EN 61373:1999 IEC 61373:1999 Railway Applications: EN 50155 Electromagnetic Compatibility: EN 61000
<b>Recommended Users</b>	50-500	<b>Package Content</b>	MAX HD4 MBX, PSU 180W (ACW-630), 1x QMA to SMA Adaptor (for GPS), 1x GPS Antenna (ACW-232), 1 Pair of Mounting Brackets (ACW-513), 4x Dual Band Wi-Fi Antennas (ACW-341), 3pin Terminal Block Connector (Ignition sense), 4pin Terminal Block Connector (Power supply), Grounding cable, Rubber Foot Pad set <i>* Cellular antennas not included. To enhance the MBX, Peplink antennas are recommended.</i>
<b>Antenna Connectors</b>	16x QMA Antenna Connectors 1x QMA GPS Antenna Connector 4x RP-SMA Wi-Fi Antenna Connectors		
<b>Power Input</b>	DC Jack/Terminal Block: 12-56 V <sup>#</sup>		

## Ordering information

Product Code	Description	Embedded Modems	Carrier/Categories	5G Bands	LTE Bands
MAX-HD4-MBX-5GD-T	HD4 MBX 5G with 4x 5G modems	4	Global/5G	<b>5G (NSA) Sub 6Ghz:</b> 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

## Add-On Feature & 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
SFN-LC-50	Up to 50 SpeedFusion Bonding License Key for MAX HD4 MBX 5G
SIM-BK8-4E-56V	SIM Injector, 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC
ANT-MB-42G-Q-W-6	7-in-1 Cellular and Wi-Fi Antenna System with GPS Receiver (White)
ANT-MB-40G-Q-B-6	5-in-1 Cellular Antenna System with GPS Receiver (White)
ANT-MB-40G-Q-W-6	5-in-1 Cellular Antenna System with GPS Receiver (Black)

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

<sup>#</sup>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.

<sup>@</sup>Theoretical maximum data rates

Available globally. Regional and carrier certification is subject to local approval.

# Expansion Module for HD2 MBX 5G<sup>®</sup>



## Specifications

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

## Ordering information

Product Code	Description	Embedded Modems	Carrier/Categories	5G Bands	LTE Bands
EXM-MBX-T2-5GD	<b>Expansion Module</b> for HD2 MBX 5G with 2x 5G modems	2	Global/ 5G	<b>5G (NSA) Sub 6Ghz:</b> 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

<sup>®</sup>Theoretical maximum data rates  
Available globally. Regional and carrier certification is subject to local approval.

# Expansion Module for HD4 MBX 5G<sup>®</sup>



## Specifications

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

## Ordering information

Product Code	Description	Embedded Modems	Carrier/Categories	5G Bands	LTE Bands
EXM-MBX-T4-5GD	Expansion Module for HD4 MBX 5G with 4x 5G modems	4	Global/5G	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

<sup>®</sup>Theoretical maximum data rates  
Available globally. Regional and carrier certification is subject to local approval.