

# MESHCONNECT

## Rugged IP Networking Node



MeshConnect redefines connectivity for modern storytelling, and is your ultimate solution for on-the-go connectivity. Engineered as a rugged, IP networking node, it creates a self-forming, self-healing Mobile Ad-hoc Network (MANET) that keeps your production moving, no matter where the action takes you.

Designed for live events, sports, reality, film, and entertainment, MeshConnect delivers reliably in even the toughest conditions. Its durable design and intuitive management tools make deployment effortless, so your team can focus on capturing the moment, not configuring technology.

With dual-band operation and a powerful Web-based GUI for seamless control and monitoring, MeshConnect brings IP control to your broadcast workflow, empowering you to connect, create, and share on the move.

### Key Features

**Frequency Range:** 1.35–1.44 GHz or 2.20–2.50 GHz, with dual-band capability

**Data Rate:** Up to 100 Mbps (adaptive)

**Latency:** Average of 7ms

**Networking:** Supports self-forming and self-healing MANET capabilities for up to 500+ nodes in a single mesh network

**Control:** A Web-based GUI is available for control

**Connectivity:** Multiple bridged Ethernet ports

**Boot Time:** Under 60 seconds from cold start to a network-ready state

**Frequency shifting** with license

### Typical Applications

Live events

Live sports

Live entertainment

Filming and film production

# MeshConnect: Technical Specification

RF & Networking	
<b>Frequency Band</b>	1.35 - 1.44 GHz*    * Can be licensed for dual bands 2.2 - 2.5 GHz*
<b>Transmit Power</b>	MeshConnect: 2 x 0.5 W MeshConnect Pro: 2 x 2 W
<b>Frequency Selection</b>	Manual selection
<b>Modulation Modes</b>	Adaptive <ul style="list-style-type: none"> <li>• BPSK</li> <li>• QPSK</li> <li>• 16QAM</li> <li>• 64QAM</li> <li>• 128QAM</li> <li>• 256QAM</li> </ul>
<b>Data Rate</b>	MeshConnect: up to 12 Mbps MeshConnect Pro: up to 100 Mbps
<b>Bandwidth</b>	<ul style="list-style-type: none"> <li>• 1.25 MHz*    * Pro variant only with license</li> <li>• 2.5 MHz*    ** Pro variant only</li> <li>• 5 MHz**</li> <li>• 10 MHz</li> <li>• 20 MHz</li> </ul>
<b>Nodes</b>	Supports up to 500+ nodes in a single mesh system
<b>Wi-Fi</b>	Features 2 & 5 GHz Wi-Fi Access Point (AP/Client)
Intercom	
<b>Headset</b>	Compatible with standard TRRS headsets (non-Waterproof variants only)
<b>PTT</b>	Push-to-Talk Trigger (non-Waterproof variants only)
User Interface	
<b>User Interface</b>	<ul style="list-style-type: none"> <li>• Web GUI</li> <li>• LED indication</li> </ul>
Physical Connectors	
<b>Connectors</b>	<ul style="list-style-type: none"> <li>• 2x RF Input / Output Connector: 50 Ω SMA (F)</li> <li>• WiFi AP/Client Antenna Connector: 50 Ω SMA (RP)</li> <li>• 2x Ethernet Connector: 1x RJ45 (10/100/1000 Mbps) + 1x RJ45 (10/100Mbps)</li> <li>• Power Connector: 2-pin Lemo socket</li> <li>• Intercom Connector: 4-pole 3.5mm jack**</li> <li>• PTT Trigger Connector: 3-pole 2.5mm jack**</li> <li>• 2x USB Connector: USB Type C*    * Future implementation</li> <li>• HDMI Connector: Micro HDMI*    ** Non-Waterproof variants only</li> </ul>
Flexibility & Power Supply	
<b>Voltage</b>	9-32V DC
<b>Power Consumption</b>	13W max
Physical & Environmental	
<b>Size &amp; Weight</b>	Non-Waterproof variant: <ul style="list-style-type: none"> <li>• Size: 82 (W) x 95.5 (D) x 25 (H) mm (excluding connectors)</li> <li>• Weight: 263g</li> </ul> Waterproof variant: <ul style="list-style-type: none"> <li>• Size: 90 (W) x 111 (D) x 30 (H) mm (excluding connectors)</li> <li>• Weight: 432g</li> </ul>
<b>Environmental</b>	Operating temperature: -20°C to 50°C Storage temperature: -40°C to +80°C
<b>Ingress Protection:</b>	Waterproof variant only: IP53
<b>Humidity:</b>	0-95% non-condensing
<b>Compliance:</b>	FCC, CE, IC and RoHS compliance

**Notes:**

Some features are available via optional licenses

Not all interface options are concurrently available

We reserve the right to change specifications at any time without prior notice

## MeshConnect: Hardware & License Options

### Hardware Options

<b>MESH-ASSY-7001</b>	MeshConnect 1.35-1.44GHz 0.5mW 12Mbps
<b>MESH-ASSY-7002</b>	MeshConnect 2.2-2.5GHz 0.5mW 12Mbps
<b>MESH-ASSY-7003</b>	MeshConnect Pro 1.35-1.44GHz 2W 100Mbps
<b>MESH-ASSY-7004</b>	MeshConnect Pro 2.2-2.5GHz 2W 100Mbps
<b>MESH-ASSY-7101</b>	MeshConnect Waterproof 1.35-1.44GHz 0.5W 12Mbps
<b>MESH-ASSY-7102</b>	MeshConnect Waterproof 2.2-2.5GHz 0.5W 12Mbps
<b>MESH-ASSY-7103</b>	MeshConnect Pro Waterproof 1.35-1.44GHz 2W 100Mbps
<b>MESH-ASSY-7104</b>	MeshConnect Pro Waterproof 2.2-2.5GHz 2W 100Mbps

### License Options

<b>MESH-LICE-0001</b>	MeshConnect License Dual Band Frequency
<b>MESH-LICE-0002</b>	MeshConnect License Frequency Shifting
<b>MESH-LICE-0003</b>	MeshConnect Pro License Narrow Bandwidth

### Hardware Variants

	<b>MeshConnect</b> MESH-ASSY-7001 MESH-ASSY-7002	<b>MeshConnect Pro</b> MESH-ASSY-7003 MESH-ASSY-7004	<b>MeshConnect Waterproof</b> MESH-ASSY-7101 MESH-ASSY-7102	<b>MeshConnect Pro Waterproof</b> MESH-ASSY-7103 MESH-ASSY-7104
Up to 12 Mbps throughput	✓	✓	✓	✓
Up to 100 Mbps throughput		✓		✓
1.25 & 2.5 MHz Bandwidth*		✓		✓
5 MHz Bandwidth		✓		✓
10 & 20 MHz Bandwidth	✓	✓	✓	✓
Output Power 0.5W	✓	✓	✓	✓
Output Power 2W		✓		✓
Intercom/Tally	✓	✓		
Dual Band*	✓	✓	✓	✓
Frequency Shifting*	✓	✓	✓	✓
IP53 Rated			✓	✓

\* Requires license

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