

# MeshConnect

## Rugged IP Networking Node



The 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

**Security:** AES 256 encryption available

## Typical Applications

Live events, sports and entertainment broadcasts

# MeshConnect Datasheet



| Technical Specifications |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                                                                                                                  |
| RF and Networking        |                                                                                                                                                  |
| Frequency Band           | <ul style="list-style-type: none"><li>• 1.35–1.44 GHz</li><li>• 2.2 – 2.5 GHz</li><li>• Dual 1.35-1.44GHz &amp; 2.2-2.5GHz</li></ul>             |
| Transmit Power           | 2 × 1mW to 2W                                                                                                                                    |
| Frequency Selection      | Manual selection                                                                                                                                 |
| Modulation Modes         | 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> |
| Data Rate                | 12Mbps*<br><br>* <i>Licensable up to 100Mbps</i>                                                                                                 |
| Bandwidth                | 5 MHz*<br>10 MHz<br>20 MHz<br><br>* <i>Available on 100Mbps throughput only</i>                                                                  |
| Nodes                    | Supports up to 500+ nodes in a single mesh system                                                                                                |
| Wi-Fi                    | Features 2 & 5GHz Wi-Fi Access Point (AP/Client)                                                                                                 |
| Intercom                 |                                                                                                                                                  |
| Headset                  | Compatible with standard TRRS headsets                                                                                                           |
| PTT                      | Push-to-Talk Trigger                                                                                                                             |
| User Interface           |                                                                                                                                                  |
| User Interface           | <ul style="list-style-type: none"><li>• Web GUI</li><li>• LED indication</li></ul>                                                               |

# MeshConnect Datasheet



| Physical Connectors          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectors                   | <ul style="list-style-type: none"><li>• <b>2x RF Input / Output Connector:</b><ul style="list-style-type: none"><li>- 50 <math>\Omega</math> SMA (F)</li></ul></li><li>• <b>WiFi AP/Client Antenna Connector:</b><ul style="list-style-type: none"><li>- 50 <math>\Omega</math> SMA (RP)</li></ul></li><li>• <b>2x Ethernet Connector:</b><ul style="list-style-type: none"><li>- 1x RJ45 (10/100/1000 Mbps)</li><li>- 1x RJ45 (10/100Mbps)</li></ul></li><li>• <b>Power Connector:</b><ul style="list-style-type: none"><li>- 2-pin Lemo socket</li></ul></li><li>• <b>Intercom Connector:</b><ul style="list-style-type: none"><li>- 4-pole 3.5mm Jack</li></ul></li><li>• <b>PTT Trigger Connector:</b><ul style="list-style-type: none"><li>- 3-pole 2.5mm Jack</li></ul></li><li>• <b>2x USB Connector:</b><ul style="list-style-type: none"><li>- USB Type C*</li></ul></li><li>• <b>HDMI Connector:</b><ul style="list-style-type: none"><li>- Micro HDMI*</li></ul></li></ul> <p><i>* Future implementation</i></p> |
| Flexibility and Power Supply |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Voltage                      | 9-32V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power Consumption            | 13W max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Physical & Environmental     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Size and Weight              | <ul style="list-style-type: none"><li>• Size: 82 (W) x 95.5 (D) x 25 (W) mm*</li><li>• Weight: 212g</li></ul> <p><i>* excluding connectors</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Environmental                | <ul style="list-style-type: none"><li>• Operating Temperature:<br/>-20°C to 50°C</li><li>• Storage Temperature:<br/>-40 °C to +80 °C</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Ingress Protection           | IP54 rated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Humidity                     | 0-95% non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Compliance                   | FCC, CE, IC, and RoHS compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Notes:

- Some features specified 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.

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