



S-MESH-MAP is a lightweight device designed to be fitted to a vehicle, building or Drone/ UAS. It combines mesh and Wi-Fi technologies to enable users to connect smart devices, sensors and cameras in environments that defeat radio and cellular communications.

- Simple to use
- Lightweight and small form factor; IP66, can be installed in a vehicle, building or Drone/UAS
- Quickly forms a true IP network for high bandwidth, bi-directional data flow
- High Data rate up to 56Mbps in MIMO mode
- Has a range of up to 18 miles (30 km) between nodes (frequency and bandwidth dependent)
- Advanced COFDM waveform for mesh
- Connects with Wi-Fi capable devices

Technical Specifications

S-MESH-MAP

Specifications

Waveform	COFDM - Token Passing Algorithm; SSBM User Selectable
Output Frequency	1000-1500MHz; 2000-2500MHz; 4500-5000MHz (other frequencies available)
Carrier Bandwidth	0.3/2.5 / 5.0 / 10.0 MHz (User Defined)
Data Rate	Up to 56 Mbps (with optional MIMO Licence); 28Mbps standard
Transmit Power	500 mW
Receive Sensitivity	< -100 dBm
Image Quality	Supports CIF / HD1 / D1 / 720P / 1080P
Power Supply	Externally Powered, 10-32V DC input
Power Consumption	4.6 W (Max)
GPS	External Antenna (SMA)
Wi-Fi	External Antenna (SMA)

Device Interfaces

Antenna	External Antenna (SMA) supplied with magnetic mounted, 6dBi OMNI Ethernet &
Control	OTA
Audio	IP/Adaptive Multi-Rate (AMR) 4.8kbps

Networking

Ethernet	2 x 10/100 Mbps
Wi-Fi	2.4/5.0 GHz

Streaming

Protocol	UDP, RTSP, RTP
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Security

Encryption	AES 128/256 (optional); DES 56-bit supplied as standard
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Physical

Dimensions	5.5 x 3.7 x 1.8 inches (140 x 95 x 45 mm)
Weight	15 ounces (450 g)
Operating Temperature	-22°F to 131°F (-30°C to 55°C) IP66

License Options

AES
STDM (Hop Mode)
FHSS (Frequency Hopping Spread Spectrum)
Interference Avoidance (SMART Mode)
MIMO
Large Network
SSBM (Single Sideband Modulation)

Reliable connectivity by extending
coverage to the edge of current networks
– and beyond

