



Pegasus Intelligence FZCO  
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S-MESH  
CAP

## Product Information



S-MESH-CAP is a lightweight, portable device that combines mesh and WiFi technologies to enable users to connect smart devices, sensors and cameras in environments that defeat radio and cellular communications.

- Simple to use
- Portable, can be clipped to a belt or slipped in a pocket
- One-button operated
- IP67 rated
- Hot swap external battery ensures no loss of connectivity
- Quickly forms a true IP network for high bandwidth, bi-directional data flow
- Data rate up to 56 Mbps in MIMO mode, 28Mbps standard
- Can accommodate up to 64 nodes in a single frequency mesh
- Has a range of up to 18 miles (30 km) between nodes (frequency & bandwidth dependent)
- Advanced COFDM waveform for mesh
- Connects with WiFi or Bluetooth capable devices

# Technical Specifications

## S-MESH-CAP

### Specifications

Waveform	COFDM
Output Frequency	1000-1500MHz; 2000-2500MHz; 4800-5000MHz (other frequencies available)
Carrier Bandwidth	2.5 / 5.0 / 10.0 MHz (User Defined)
Data Rate	
Transmit Power	Up to 56 Mbps (with optional MIMO Licence); 28Mbps standard
Receive Sensitivity	500 mW
Image Quality	< -100 dBm
Power Supply	Supports CIF / HD1 / D1 / 720P / 1080P
Power Consumption	Battery Powered, 7 V (7-14.5 VDC)
GPS	4.6 W (Max) 12 Hours Run Time
WiFi	Internal
	Internal

### Device Interfaces

Antenna	
Control	SMA x 2
Audio	Ethernet & OTA
Single Button	Adaptive Multi-Rate (AMR) 4.8kbps
Display	On/Off
	3 x LED – Power, Signal Strength, Connected

### Networking

Ethernet	
WiFi	10/100 Mbps
	2.4GHz

### Streaming

Protocol	UDP, RTSP, RTP
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### Security

Encryption	DES 56 or AES 128/256*
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### Physical

Dimensions	
Weight	6.7 x 3.5 x 1.8 inches (170 x 90 x 45 mm)
Operating Temperature	15 ounces (Battery 7 ounces ) 450 g (190 g)
Ingress Protection Rating	-22°F to 131°F (-30°C to 55°C)
	IP67

### License Options

AES encryption  
STDN (Hop Mode)  
FHSS (Frequency Hopping Spread Spectrum)  
Interference Avoidance (SMART Mode)  
MIMO  
Large Network

