



HyphaCAP is a lightweight, portable device that 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
- 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
- Can accommodate up to 32 nodes in an urban environment
- Has a range of up to 3 miles (5 km) between nodes
- Advanced COFDM waveform for mesh
- Connects with Wi-Fi or Bluetooth capable devices

Technical Specifications

HyphaCAP

Specifications

Waveform	COFDM SSBM User Selectable
Output Frequency	4.9 GHz Public Safety Band
Carrier Bandwidth	0.3 / 2.5 / 5.0 / 10.0 MHz (User Defined)
Data Rate	Up to 56 Mbps
Transmit Power	500 mW
Receive Sensitivity	< -100 dBm
Image Quality	Supports CIF / HD1 / D1 / 720P / 1080P
Power Supply	Battery Powered, 7 V (7-14.5 VDC)
Power Consumption	4.6 W (Max) 12 Hours Run Time
GPS	Internal
Wi-Fi	Internal

Device Interfaces

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

Networking

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

Streaming

Protocol	UDP, RTSP, RTP
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Security

Encryption	AES 128/256
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Physical

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

License Options

STDN (Hop Mode)
Interference Avoidance (SMART Mode)

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

For further information, please contact sales@hypha.world or visit www.hypha.world

