



Fiber Optic, Wireless and Network Transmission

# MiniLink<sup>®</sup> Wireless Host/Access Point

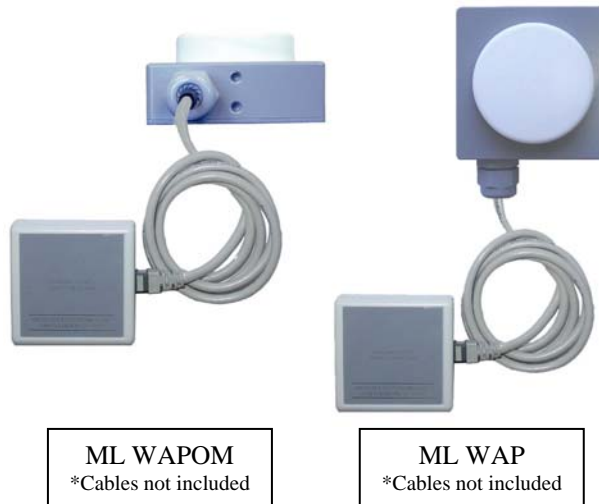
## 5.8 GHz Wireless Ethernet Multipoint Host Antenna Kit

### Product Description

The MiniLink Wireless Host/Access Point is a plug and play wireless transmit/receive module capable of up to 22 Mbps in standard mode and 50 Mbps in turbo mode. It operates in the license free 5.8 GHz band and replaces a CAT5/Ethernet cable connection where it is not possible, cost effective or desirable to run a cable. The Host/AP is offered in directional (WAP) or Omni-directional (WAPOM) form factors. The ML WAP and ML WAPOM can both be connected to multiple MiniLink Client/Subscriber Units to enable numerous Ethernet devices. A secure encryption method is used to prevent unauthorized access to the system. The MiniLink Host/AP provides connectivity for IP devices such as: IP cameras, DVRs, encoder/decoders and web servers in ranges from 500 feet to 6 miles.

### Product Features

- 22 Mbps standard mode, 50 Mbps in turbo mode
- 5 User Selectable Channels, 802.11a technology
- Plug and Play operability
- Compact billet aluminium casing
- Secure Encrypted Transmission
- Web browser interface for advance operation
- Ranges from 500 feet to 6 miles determined by Client Subscriber Unit connected to the Host AP
- Three LED indicators provide quick set up and helpful diagnosis of all important system parameters



ML WAPOM  
\*Cables not included

ML WAP  
\*Cables not included

flexible • reliable • proven

[www.kbcnetworks.com](http://www.kbcnetworks.com) [www.microtekelectronics.com](http://www.microtekelectronics.com)

KBC Networks / MicroTek Electronics, Inc. 25691 Atlantic Ocean Drive, Suite B3, Lake Forest, CA 92630. Phone (888) 366-4276, fax (949) 297-4933

Version No. 090506

## RF Modules

RF SECTION	
Power Output	50 W EIRP @ 5.8 GHz (maximum)
Transmitting Frequency	5.725 – 5.825 GHz (U-NII-3 / ISM)
Channel Capacity	5 non-overlapping channels 5.8 GHz Band - 5745, 5765, 5785, 5805, 5825
Modulation	OFDM
Latency	<10 milliseconds
Receiver Sensitivity	-82 dBm for maximum data rate
Polarization	Linear, horizontal or vertical
Antenna Type & Gain	Small patch, 5.8 dBi @ 5.8 GHz Dipole, 2 dBd @ 5.8 GHz
Beam Width	Small patch - 90°; Dipole- 360° in vertical polarity
Data Throughput Rate	Up to 20 Mbps - std mode, 50+ Mbps – super mode (2 channels maximum)
FCC ID	JRRWES
Industry Canada	4887A-WES

MANAGEMENT	
Interface	10/100 Base T, half/full duplex, rate auto negotiated (802.3 compliant)
Frequency Selection	Rotary switch – channels 0 – 7
Web Browser Interface	User ID/Password, Super Mode, IP Address, WPA2 AES and WEP Encryption
Access Method	Time division duplexing/Time division multiple access (TTD/TDMA)
Protocols Used	IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP
Network Management	HTTP

MECHANICAL	
Physical	Environmental, sealed, billet aluminum, powder coated housing with UV stabilized PVC radome
Dimensions	3.6" x 3.6" x 1.75"
Weight	15.2 oz

POWER	
Power Requirements	12 - 20 VDC @ 3 W (Reverse voltage protected)
Power Method	Power-over-Ethernet (PoE) via power injector module ("mid-span" compliant – pins 4,5 positive – pins 7,8 ground)
Connector	RJ45 – in and out of power injection box
Cable Specifications	100 Meters (328 Feet) on 24 AWG CAT-5E cable

ENVIRONMENTAL	
Humidity	95% non-condensing
Operating Temperature	-20F to +150F

## Part Numbers

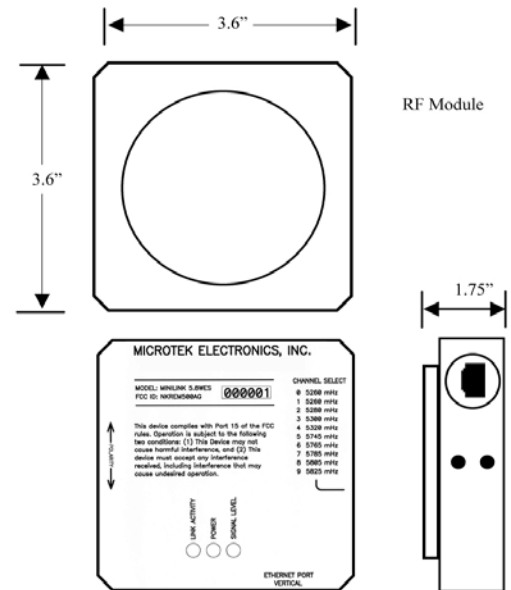
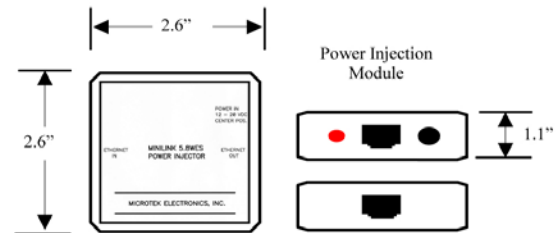
ML WAP	Multipoint antenna kit (range determined by Client/Subscriber Unit/s). Integral directional patch antenna
ML WAPOM	Multipoint antenna kit (range determined by Client/Subscriber Unit/s). Integral omni-directional dipole antenna

Each ML-WAP / WAPOM Kit includes:  
 1 – RF Module with integral patch/dipole antenna  
 1 – Power supplies  
 1 – PoE power injection modules

## Power Injection Module

MECHANICAL	
Physical	Plastic housing, not weatherproof
Dimensions	2.6" x 2.6" x 1.1"
Weight	2.5 oz
Interface	2 – RJ45 connectors
POWER	
Power Requirements	12 VDC 500 mA (wall transformer supplied)
Power-over-Ethernet (PoE)	PoE "mid-span" compliant (pins 4,5 positive – pins 7,8 ground)
Indicator	LED - red
Connectors	DC Jack 2.5 mm x 5.5 mm center positive, 2 – RJ45

ENVIRONMENTAL	
Humidity	Not weatherproof, PIM unit must be enclosed
Operating Temperature	-20F to +150F



Due to ongoing technological improvements, product specifications are subject to change without notice

flexible • reliable • proven

www.kbcnetworks.com www.microtekelectronics.com

KBC Networks / MicroTek Electronics, Inc. 25691 Atlantic Ocean Drive, Suite B3, Lake Forest, CA 92630. Phone (888) 366-4276, fax (949) 297-4933