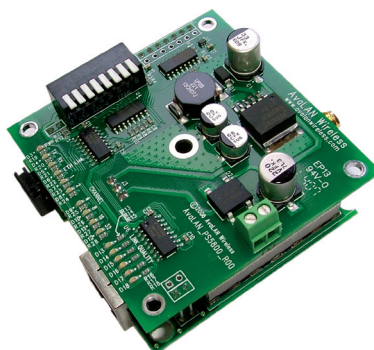


# Non-line-of-sight :: 900 MHz

The AW900mT module allows you to build your own long-range, non-line-of-sight, point-to-multipoint wireless Ethernet solution that can enable any remote Ethernet device, including Wi-Fi access points, surveillance cameras, VoIP phones, point-of-sale devices, or Internet kiosks.

The AW900mT solution offers the ideal combination of price, range, data rate, security, interference avoidance, quality-of-service, and ease-of-use.



## AW900mT OEM Module

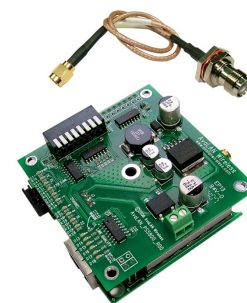
900 MHz non-line-of-sight, point-to-multipoint radio transceiver module. Includes:

- (1) AW900mT RF module – RPSMA female
- (1) AWP8 8-inch pigtail – RPSMA male to RPTNC bulkhead female

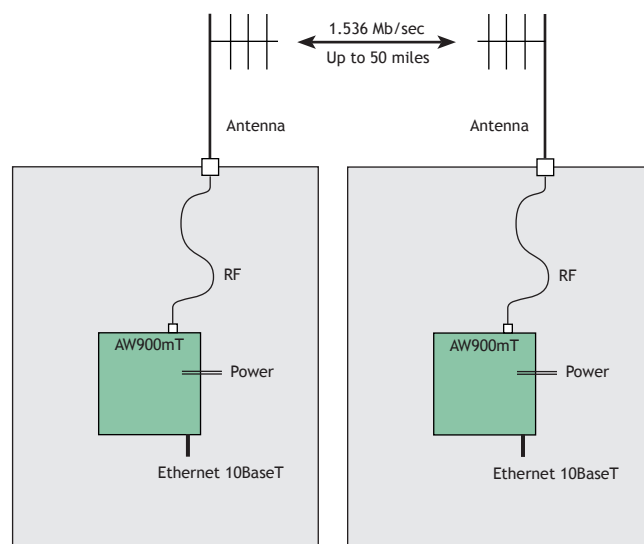
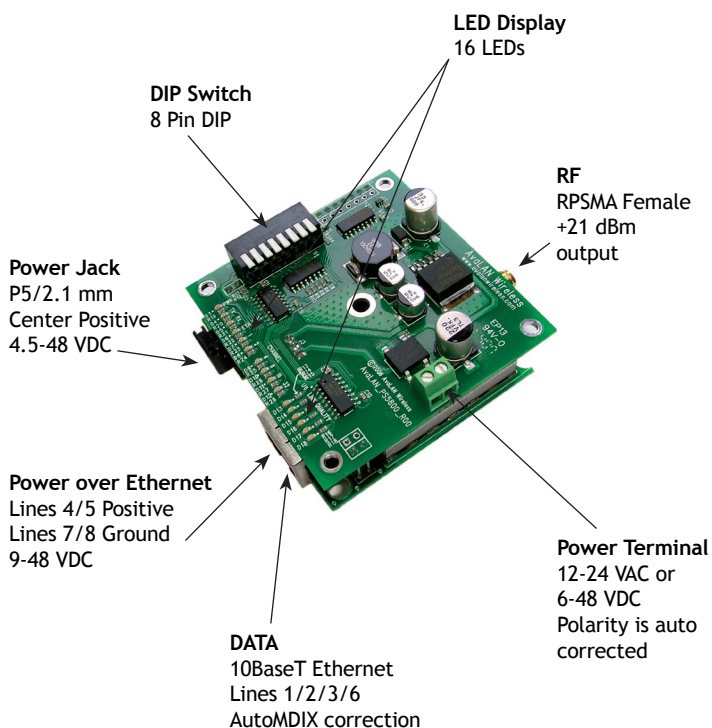
Requires antenna: Use with AW2, AW5H-900, AW5P-900, AW6, AW10, AW11, or AW15 – all FCC approved

## Features

- 902 to 928 MHz frequency provides excellent non-line-of-sight performance to penetrate foliage and building walls and floors
- Does not interfere with 802.11 Wi-Fi networks
- Highest Quality of Service (QoS) available – synchronous point-to-multipoint protocol enables extremely low data latency and jitter
- 128 bit encrypted payload protection provides secure data delivery
- Simple plug and play setup with minimal configuration required
- Flexible input power (3.3-48 VDC, 12-24 VAC, Midspan Power over Ethernet)
- FCC certified as a module and does not require an FCC license to install and operate

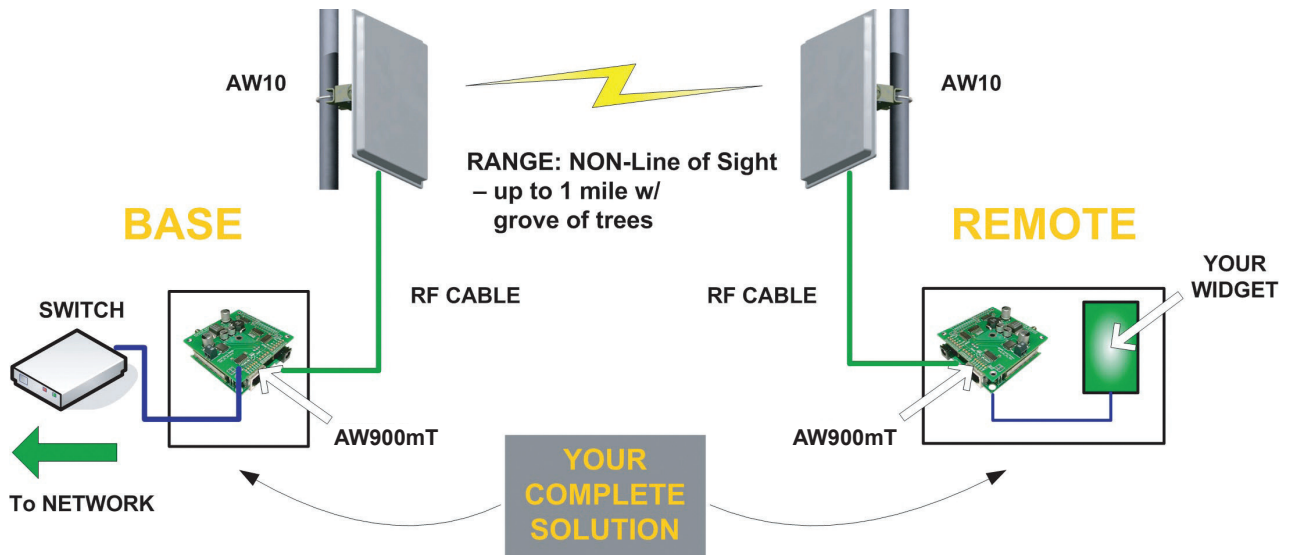


## Connections / System diagram



\* There is a limit of 1 Ethernet device connected to each client node. Ethernet switches should not be attached to client nodes. A router can be used in situations where multiple Ethernet devices must share a client radio node. See online support for more information.

# Schematic



# Technical specifications

CHARACTERISTIC	SPECIFICATION / DESCRIPTION
RF transmission rate	1.536 Mb/s
Ethernet throughput	935 Kb/s
Output power	+21 dBm (4 Watts EIRP used with 15 dBi antennae)
Receive sensitivity	-97 dBm at 10e-4 BER (-112 dBm with 15 dBi antennae)
Radio link budget	148 dB with 15 dBi antenna AW5-5800
Range	50 miles LOS with 15 dBi antenna
Radio channels/bandwidth	12 non-overlapping with 2.0833 MHz spacing and 1.75 MHz occupied bandwidth
Automatic frequency select	Yes, radio channel automatically selected and adaptively optimized
Connector types	RF RPSMA Female / Ethernet RJ45 10BaseT / Power Jack P5-2.1 mm ID
Status LEDs	Power, Ethernet Link, RF RX, RF TX, 4/Channel, and 6/Link Quality
Error correction technique	Sub-block error detection and retransmission
Regulator type	Switching regulator
Power consumption	Transmit: 1.4 W      Receive: 0.8 W
Voltage	4.5-48 VDC at screw terminal 9-48 VDC over Ethernet 12-26 VAC at screw terminal
Temperature range	-40° C to 70° C
Transmit current draw	250 mA at 5 VDC 110 mA at 12 VDC 32 mA at 48 VDC
Size	65 x 65 x 33 mm

# Ordering information

PART NUMBER	DESCRIPTION	CONTENTS
AW900mT	900 MHz non-line-of-sight, point-to-multipoint radio transceiver module	(1) AW900mT RF module – RPSMA female, (1) AWP8 8-inch pigtail – RPSMA male to RPTNC bulkhead female

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