

5GHz WES3 Series

Point-to-Point & Point-to-Multipoint Wireless Ethernet System PoE / Non PoE



Product Description

The WES3 Wireless Ethernet System is a wireless transmission system that operates in the license-free, 5GHz band, providing a cableless transmission path for an Ethernet channel.

The WES3 firmware is configurable for product type, enabling one common unit to be configured as a client, a single-point host or a multipoint host.

The system is IEEE802.11a/n compliant and will support up to 99Mbps throughput due to MIMO technology (Multiple In Multiple Out). WES3 provides connectivity for a wide range of Ethernet devices such as megapixel/HD cameras, DVRs, encoders/decoders and web servers and uses a secure encryption method to prevent unauthorized access to the system. WES3 is available as a IEEE802.3af compliant unit or non-PoE version with a power injection module for applications where PoE is not available. All WES3 units ship with a universal wall/pole mount.



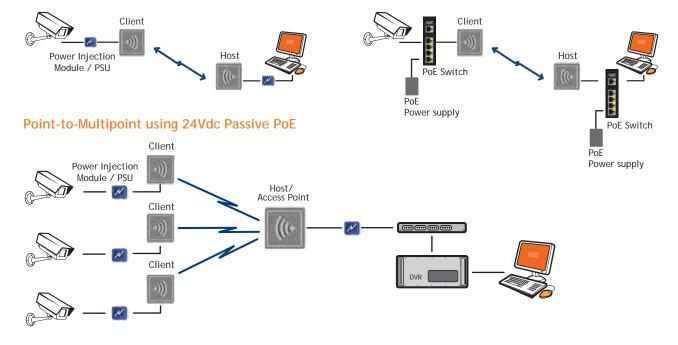
Product Features

- Configurable for client / singlepoint host / multipoint host
- IEEE802.11a/n compliant
- Transmission Power Control
- Up to 23dBm output power
- Secure transmission: WPA2 AES or TKIP encryption
- Antenna alignment & site signal survey tools
- Distance adjustment for long range transmission
- Range of antenna options
- Passive midspan compliant PoE support
- IP66 protection class

Typical System Configurations

Point-to-Point using 24Vdc Passive PoE

Point-to-Point using 48Vdc IEEE802.3af PoE



Specifications

IEEE Standard IEEE 802.3u 100BASE-TX IEEE 802.3x Full Duplex IEEE 802.11a 5GHz IEEE 802.11h ETSI DFS & TPC

IEEE 802.11n MIMO

Frequency USA & Canada (FCC) U-NII3

Frequency Operation

Power Output

Channel Bandwidth Spectrum

Antenna Options

5dBi 9dBi

17dBi

Data throughput⁽²⁾

Encryption

Latency

5180 ~ 5240MHz, 5745 ~ 5825 MHz

5500 ~ 5700 MHz Auto-select

User static selectable Dynamic Frequency Selection

(ETSI DFS) 23dBm max⁽¹⁾

Transmit Power Control (ETSI TPC)

Selectable 5, 20 or 40MHz

Omni-directional

Directional integrated patch Dual polarization

Beamwidth:

Azimuth:Horizontal 65°, vert 65° Elevation: Horizontal 33°, vert 33° Directional integrated patch

Dual polarization Beamwidth:

Azimuth:Horizontal 30°, vert 33° Elevation: Horizontal 17°, vert 17°

HT5 HT20 HT40 17Mbps 99Mbps 99Mbps

<10mS

TKIP / AES encryption up to 128 bit

Power Method

Passive PoE PoE version

PoE cable spec

Mechanical (unit)

Dimensions (L x W x D)

Weiaht (17dBi unit)

Installation

Environmental

Operating Temperature Storage Temperature Operating Humidity

10/100 Electrical

FCC Part 15 Subpart C

EN 55024 (IEC61000-4-2,3,4,5,6,8,11)

EN 55022 (CISPR 22)

EN 60 950: 1992+A1: 1993+A2: 1995+A4: 1996+A1: 1997

EN 300 328-2 EN 300 826 EN 301 489-17

EN 301 893 R&TT Directive (1999/5/EC) See spec below 48Vdc IEEE 802.3 af (PD) (PoE Power supply not included) 100m on 24AWG Cat5 / 5e / 6 / 6e

IP66 protection . 292mm x 146mm x 89mm /11.5" x 5.75" x 3.5" 0.82kg / 1.8lb Wall-mount or pole-mount

-40°~ +74°C / -40°~ +165°F -40°~ +90°C / -40°~ +194°F 5 to 95% non-condensing

1 x RJ45

Class B Class B

Electromagnetic Immunity Electromagnetic Interference (Conduction & Radiation) Low Voltage Directive

Part Number Configurator

WES3-AX-AA

A: 5dBi Omni-directional B: 9dBi Directional

C: 17dBi Directional

A: US Power Connection & Firmware

B: UK Power Connection & EMEA Firmware

C: Euro Power Connection & EMEA Firmware

E: Australian Power Connection & Firmware

F: PoE version & US Firmware

G: PoE version & EMEA Firmware

H: PoE version & Australian Firmware

Power Injection / Power Supply For Passive PoE Version Part Number: WESII-PIM-WP

Mechanical

Physical Dimensions (LxWxH)

Interface

Operating Temperature

Plastic housing 84 x 47 x 54mm /3.31 x 1.85 x 2.13" 2 x RJ45 connectors

Input Output Consumption

Power-over-Ethernet (PoE) Indicator

100 ~ 240Vac 24Vdc. 500mA 12W (max)

Passive PoE "mid-span" compliant

LED (green)

Territory specific Assumes ideal RF environment with max signal rates & within receive sensitivity specification. Max values - limited by 10/100 port

Wireless Point-to-Point Kits - available in North America

-40°~ +74°C (-40°~ +158°F)

WES3-KT	Includes (2) WES3 RF modules, (2) PIM, (2) 24Vdc PSU, plus all mounting hardware
WES3-KT-ED	Includes WES3-KT & encoder/decoder kit (EDKT-H) plus all mounting hardware
WES3-KT-P5	Includes WES3-KT, 5 port industrial PoE switch & power supply (ESUL4-EL1-P1 & DR120-48)
WES3-KT-P8	Includes WES3-KT, 8 port industrial PoE+ switch & power supply (ESUG8P-D & DRP240-48)
WES3-KT-POE	Includes (2) WES3 RF modules, with PoE, plus all mounting hardware

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