



Product Description

The WES3HTG Wireless Ethernet System is a high throughput gigabit wireless transmission system that operates in the license-free, 5GHz band providing an Ethernet channel of up to 1.3Gbps aggregate.

The WES3HTG firmware is configurable for product type, enabling one common unit to be configured as a client, single-point host or multipoint host.

The system is IEEE802.11ac compliant and will support up to 1.3 Gbps throughput due to MIMO technology (Multiple In Multiple Out). WES3HTG provides high throughput connectivity for backhaul applications as well as a wide range of Ethernet devices such as megapixel/HD IP cameras, DVRs and web servers. It uses secure encryption to prevent unauthorized access to the system. WES3HTG is IEEE802.3af compliant and can also be used with a power injection module for applications where PoE is not available. The WES3HTG units are wall or pole-mountable with the included hardware.



Product Features

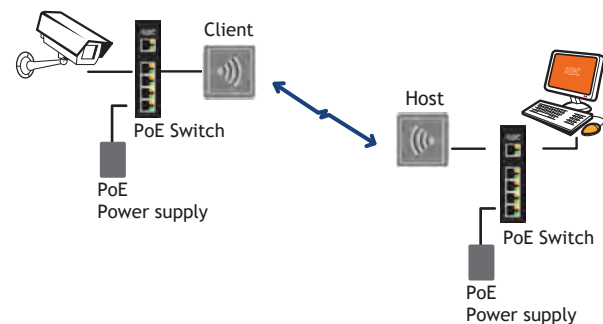
- Configurable for client / singlepoint host / multipoint host
- IEEE802.11ac compliant
- Transmission Power Control
- Up to 30dBm output power
- Secure transmission: WPA2 - AES or TKIP encryption
- Antenna alignment & site signal survey tools
- Distance adjustment for long range transmission
- Range of antenna options
- Passive midspan compliant PoE support
- IP66 protection class

Typical System Configurations

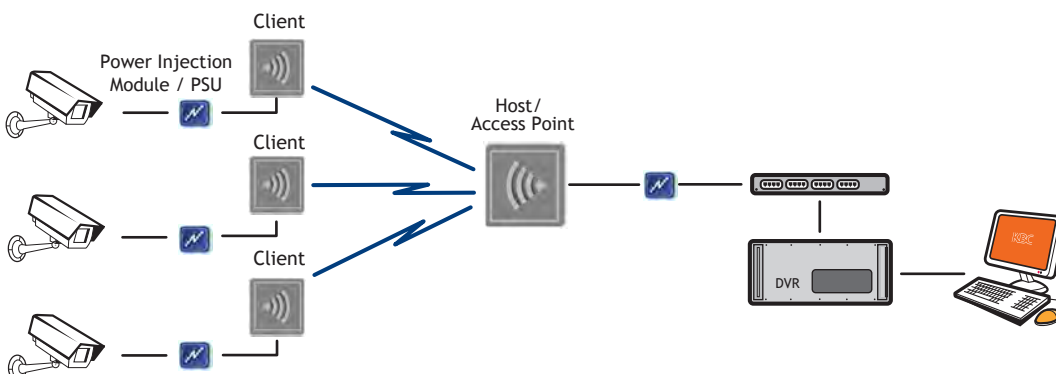
Point-to-Point using 48Vdc Passive PoE



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



Point-to-Multipoint using 48Vdc Passive PoE



Specifications

Standards IEEE Standard		IEEE 802.3 10BASE-TX IEEE 802.3u 100BASE-TX IEEE 802.3x Full Duplex IEEE 802.11ac 5GHz IEEE 802.11h ETSI DFS & TPC IEEE 802.11n MIMO	Power Method PoE version PoE cable spec	IEEE 802.3 af (PD) / Included PIM 100m on 24AWG Cat5/5e/6/6e/7
Radio Frequency USA & Canada (FCC) U-NII3 Europe Frequency Operation		5180 ~ 5240MHz, 5745 ~ 5825 MHz 5500 ~ 5700 MHz Auto-select User static selectable Dynamic Frequency Selection (ETSI DFS) 30dBm max ⁽¹⁾ Transmit Power Control (ETSI TPC) Selectable 20, 40 or 80MHz	Mechanical (unit) Casing Dimensions (L x W x D) Weight (17dBi unit) Installation	IP66 protection 292mm x 146mm x 89mm 11.5" x 5.75" x 3.5" 0.82kg / 1.8lb Wall-mount or pole-mount
Power Output			Environmental Operating Temperature Storage Temperature Operating Humidity	-40° ~ +74°C / -40° ~ +165°F -40° ~ +90°C / -40° ~ +194°F 5 to 95% non-condensing
Channel Bandwidth Spectrum			Connectors 10/100/1000 Electrical	1 x RJ45
Antenna Options 5dBi 9dBi 17dBi		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°	Approvals FCC Part 15 Subpart C CE 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)	Class B Class B Electromagnetic Immunity Electromagnetic Interference (Conduction & Radiation) Low Voltage Directive
System Data throughput ⁽²⁾ Latency Encryption		HT40 HT80 300Mbps 650Mbps <10ms TKIP / AES encryption up to 128 bit		



Part Number Configurator

WES3HTG-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

Included Power Injection Module (PIM)

Mechanical Physical Dimensions (LxWxH)		Plastic housing 84 x 47 x 54mm 3.31 x 1.85 x 2.13"	Power Input Output Consumption Power-over-Ethernet (PoE) Indicator	100 ~ 240Vac 48Vdc, 500mA 12W (max) Passive PoE "mid-span" compliant LED (green)
Interface		2 x RJ45 connectors		
Environmental Operating Temperature		-40° ~ +74°C (-40° ~ +158°F)		

¹. Territory specific

². Assumes ideal RF environment with max signal rates & within receive sensitivity specification. Max values - limited by 10/100 port

Wireless Point-to-Point Kits

WES3HTG-KT	Includes (2) WES3HTG RF modules, (2) PIM, (2) 48Vdc PSU, plus all mounting hardware
WES3-HTG-KT-P8	Includes WES3HTG-KT, 8 port industrial PoE+ switch & power supply (ESUG8P-D & DRP240-48)
WES3-HTG-KT-P8T	Includes WES3HTG-KT, 8 port industrial PoE switch & extended temp power supply (ESUG8P-D & SDR240-48)

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