5GHz WES3HTG-EXP Series

Gigabit Point-to-Point & Point-to-Multipoint
Explosionproof Wireless Ethernet System

Product Description

INDUSTRIAL EXPLOSION PROOF CLASS I, II DIVISION 1 GROUPS B,C,D,E,F,G.

The Explosion Proof UL Listed high performing WES3HTG-EXP radios offer the same great performance of our WES3HTG series in an explosionproof housing for use in extreme environments.

The WES3HTG-EXP product is designed for point to point and point to multi-point solutions with throughput up to 650Mbps available. 17dbi and 9dbi patch antenna options are available.

The WES3HTG-EXP is suitable for installation in a wide variety of IP camera, access control, and industrial automation systems.

The product uses a removable DIN rail clip that can be positioned on the side or back of its enclosure offering multiple installation options.

Product Features

- IEEE802.11ac compliant radio, 5GHz
- Mounts on Top Hat EN 50022 DIN rail
- Transmission Power Control, up to 30dBm output power
- Configurable for client / singlepoint host / multipoint host
- 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
- MIMO technology providing 1.3 Gbps aggregate throughput

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Specifications

Standards

IEEE Standards	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BASE-T, IEEE 802.3x Full Duplex
	IEEE 802.11a 5GHz, IEEE 802.11h ETSI DFS & TPC
	IEEE 802.11n MIMO

Radio

Frequency	
USA & Canada (FCC) U-NII3	5180 ~ 5240MHz, 5745 ~ 5825 MHz
Europe	5500 ~ 5700 MHz
Frequency Operation	Auto-select
	User static selectable
	Dynamic Frequency Selection
	(ETSI DFS)
Power Output	30dBm max [1]
	Transmit Power Control (ETSI TPC)
Channel Bandwidth Spectrum	Selectable 20, 40 or 80MHz

Antenna Options

5dBi	Omni-directional
17dBi	PAT5M Directional Patch
	Dual polarization
	Beamwidth:
	Azimuth:Horizontal 30°, vert 33°
	Elevation: Horizontal 17°, vert 17°

System

Data throughput [2]	HT40	HT80
	300Mbps	650Mbps
Latency	<10ms	
Encryption	TKIP / AES encryption up to 128 bit	

Power Method

Direct Wiring	120 VAC

Mechanical (unit)

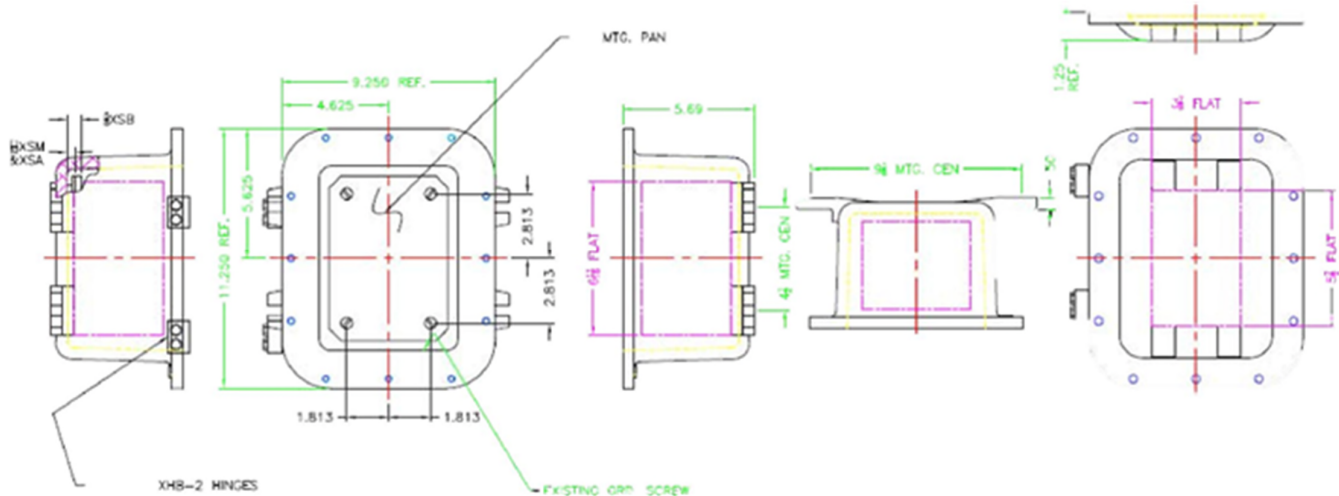|	
Casing	IP66/TYPE4 protection
Dimensions (L x W x D)	286mm x 235mm x 145mm
	11.25" x 9.25" x 5.69"
Weight	16.24kg / 35.8lb
Installation	Wall-mount or pole-mount

Environmental

Operating Temperature	-40˚ ~ +74˚C / -40˚ ~ +165˚F
Storage Temperature	-40˚ ~ +90˚C / -40˚ ~ +194˚F
Operating Humidity	5 to 95% non-condensing
Mean Time Between Failure (MTBF)	> 1,500,000 Hours

Connectors

10/100/1000Mbps Electrical	1 x RJ45

Approvals

FCC Part 15 Subpart C	Class B
CE	Class B
EN 55024	
(IEC61000-4-2,3,4,5,6,8,11)	Electromagnetic Immunity
EN 55022 (CISPR 22)	Electromagnetic Interference
	(Conduction & Radiation)
EN 60 950: 1992+A1: 1993+A2:	Low Voltage Directive
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)	

Part Number Configurator

WES3HTG-EXP-CA

A: US Power Plug & Firmware
B: UK Power Plug & EMEA Firmware
C: Euro Power Plug& EMEA Firmware
E: Australian Power Plug & Firmware

1.   Territory specific.
2.   Assumes ideal RF environment with max signal rates & within receive sensitivity specification.