



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

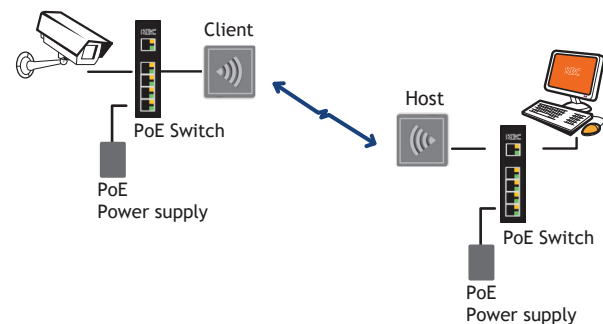
- IEEE802.11ac compliant wireless radio, 5GHz
- Mounts on Top Hat EN 50022 DIN rail
- Transmission Power Control, up to 30 dBm output power
- Configurable for client / singlepoint host / multipoint host
- Secure transmission: WPA2 - AES or TKIP encryption
- Antenna alignment & site signal survey tools
- Distance adjustment for long range transmission
- Range of antenna options
- Passive midspan compliant PoE support
- MIMO technology providing 1.3 Gbps aggregate throughput

Typical System Configurations

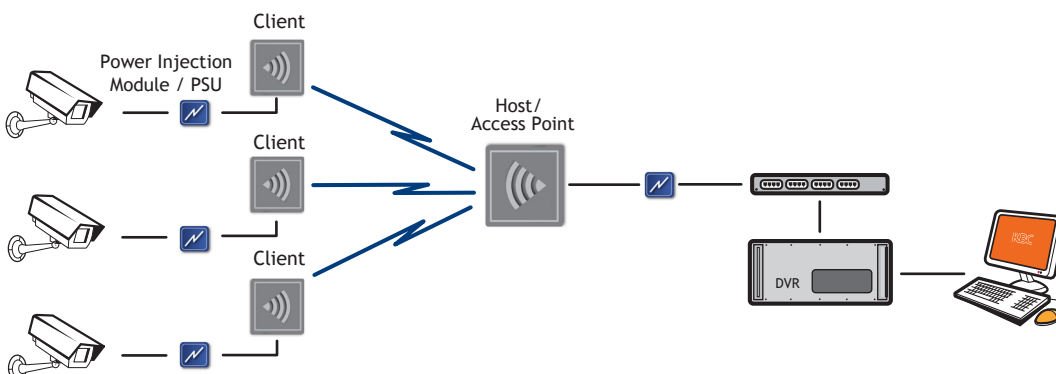
Point-to-Point using 48Vdc Passive PoE



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



Point-to-Multipoint using 48Vdc Passive PoE



IEEE Standard

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

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

Power Output

Channel Bandwidth Spectrum

5dB_i5dB_i17dB_i

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

Data throughput⁽²⁾Data throughput⁽²⁾

Latency
Encryption

HT40	HT80
300Mbps	650Mbps
<10mS	
TKIP / AES encryption up to 128 bit	

Direct Wiring

Direct Wiring

120 VAC

Casing
Dimensions (L x W x D)

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IP66/TYP4 protection
286mm x 235mm x 145mm
11.25" x 9.25" x 5.69"
0.82kg / 1.8lb
Wall/pole-mount or DIN rail

Weight Installation

Operating Temperature
Storage Temperature
Operating Humidity

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

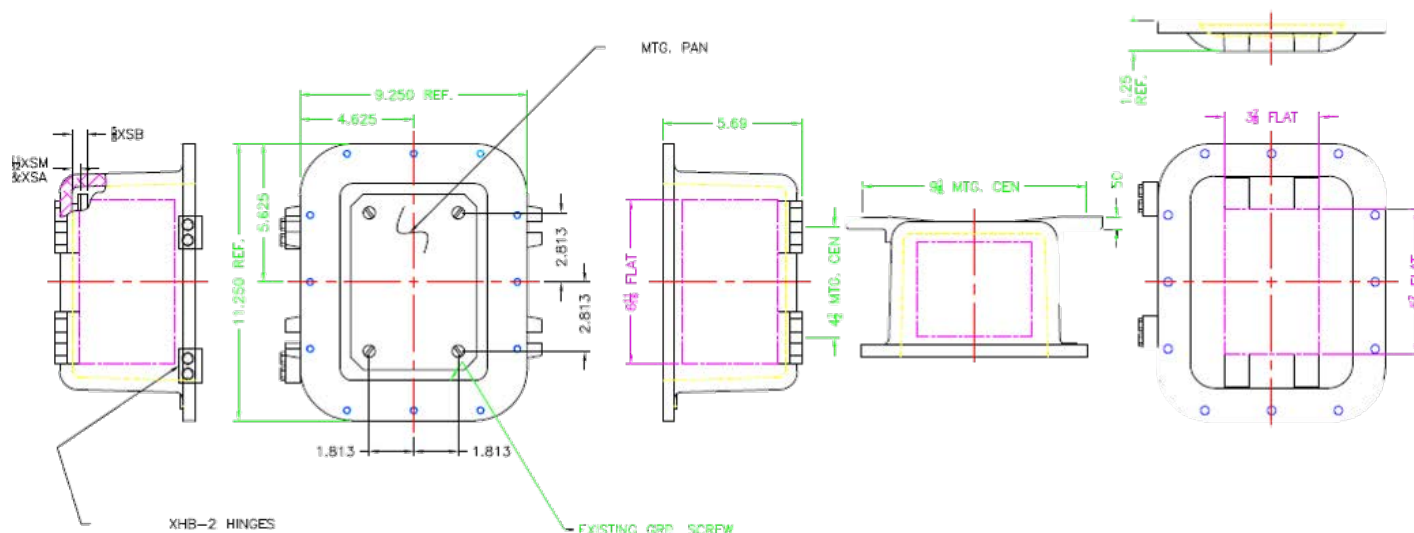
10/100/1000 Electrical

10/100/1000 Electrical

1 x RJ45

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)

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



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

1. Territory specific

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