data delivered

5GHz WESII PoE Series

Point-to-point & Point-to-Multipoint
Wireless Ethernet System

Product Description

The WESII Wireless Ethernet System is a wireless transmission system with PoE that operates in the license-free 5GHz band, providing a cableless transmission path for an Ethernet channel. The system is IEEE802.11a/n compliant and will support up to 99Mbps throughput due to MIMO technology (Multiple In Multiple Out). WESII 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.

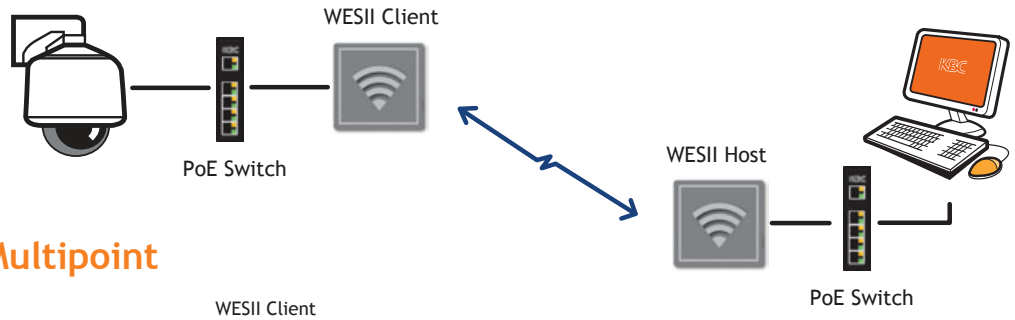
The WESII units are available in wall- or pole-mount configurations.

Product Features

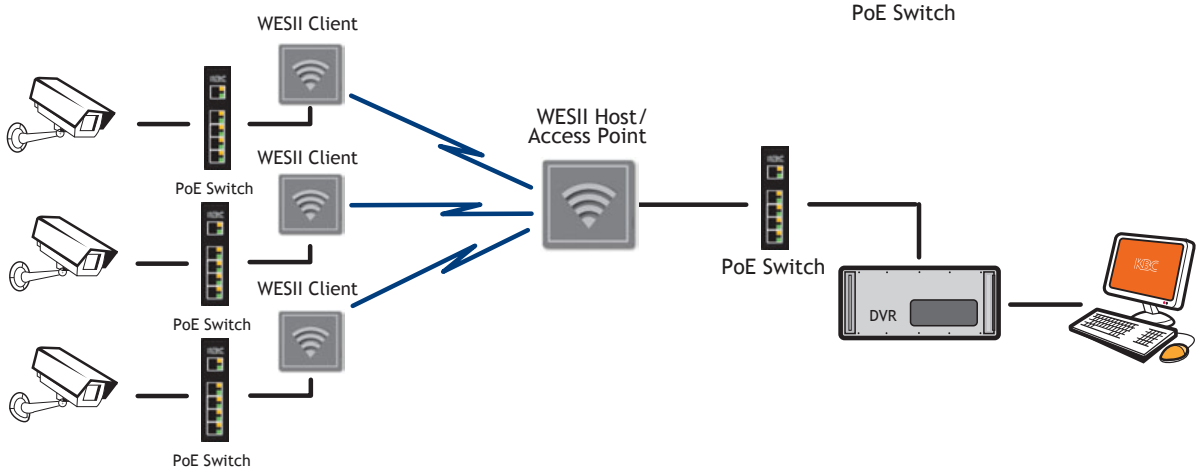
- IEEE802.11a/n compliant
- Transmission Power Control
- Up to 23dBm output power
- Secure transmission: WPA2 – AES or TKIP encryption
- Antenna alignment & site signal survey tools
- Distance adjustment for long range transmission
- Range of antenna options
- IEEE802.3af compliant
- IP66 protection class

Typical System Configurations

Point-to-Point



Point-to-Multipoint



Specifications

Standards

IEEE Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Full Duplex IEEE 802.11a 5GHz IEEE 802.11h ETSI DFS & TPC IEEE 802.11n MIMO IEEE 802.3af

Radio

Frequency USA & Canada (FCC) U-NII3 Europe	5180 ~ 5240MHz, 5745 ~ 5825 MHz 5500 ~ 5700 MHz
Frequency Operation	Auto-select User static selectable Dynamic Frequency Selection (ETSI DFS)
Power Output	23dBm max[1]
	Transmit Power Control (ETSI TPC)
Channel Bandwidth Spectrum	Selectable 5, 20 or 40MHz

Antenna Options

5dBi	Omni-directional
9dBi	Directional integrated patch Dual polarization Beamwidth: Azimuth:Horizontal 65˚, vert 65˚ Elevation: Horizontal 33˚, vert 33˚
17dBi	Directional integrated patch Dual polarization Beamwidth: Azimuth:Horizontal 30˚, vert 33˚ Elevation: Horizontal 17˚, vert 17˚

System

Data throughput[2]	HT5	HT20	HT40
	17Mbps	99Mbps	99Mbps
Latency	<10mS		
Encryption	TKIP / AES encryption up to 128 bit		

Power

Power method	IEEE 802.3 af (PD)
PoE cable spec	100m on 24AWG Cat5 / 5e / 6 / 6e

Mechanical (unit)

Casing	IP66 protection
Dimensions (L x W x D)	245mm x 245mm x 76mm (9.625” x 9.625” x 3”)
Weight (17dBi unit)	1.36kg / 3lb
Installaton	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

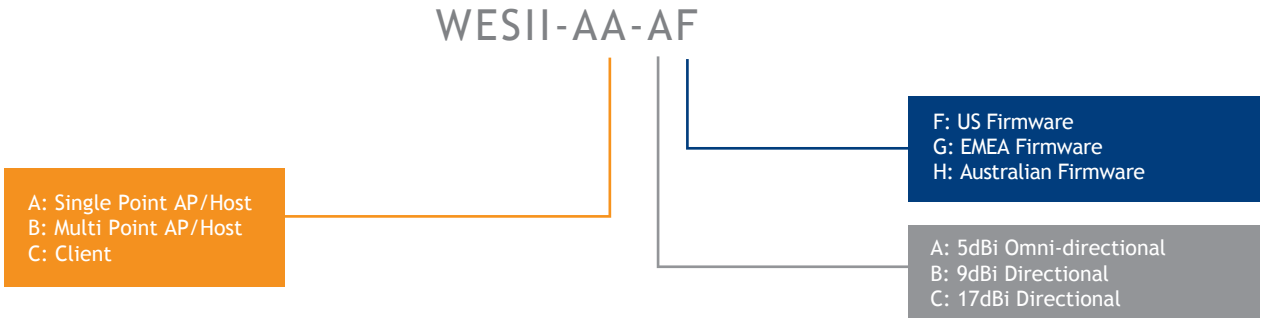
Connectors

10/100 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: 1995+A4: 1996+A1: 1997	Low Voltage Directive
EN 300 328-2	
EN 300 826	
EN 301 489-17	
EN 301 893	
R&TT Directive (1999/5/EC)	

Part Number Configurator



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