



Product Description

The WESII Wireless Ethernet System is a wireless transmission system that operates in the license-free 2.4GHz band, providing a cableless transmission path for an Ethernet channel. The system is IEEE802.11b/g/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

- IEEE802.11b/g/n compliant
- Up to 20dBm 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

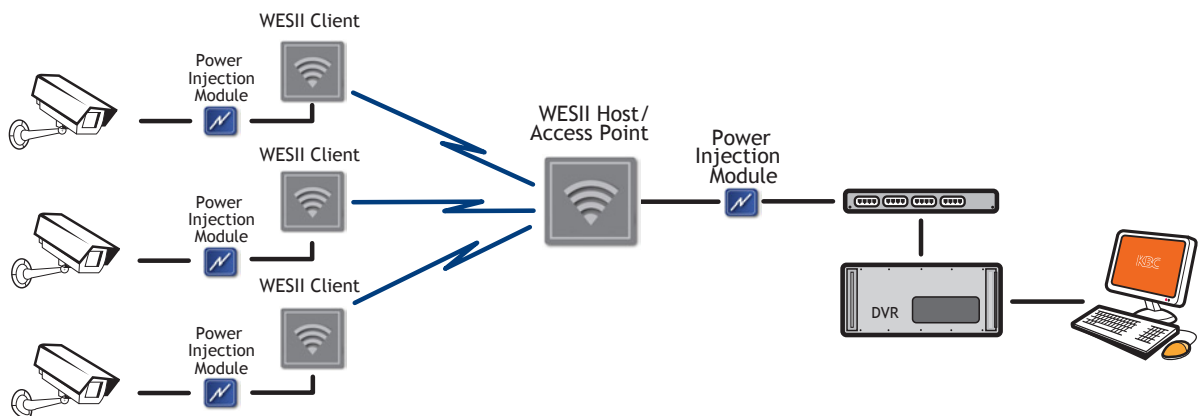


Typical System Configurations

Point-to-Point Examples



Point-to-Multipoint



Specifications

Standards

IEEE Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Full Duplex IEEE 802.11b 2.4GHz IEEE 802.11g IEEE 802.11n MIMO
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Radio

Frequency	2412 ~ 2472 MHz
Frequency Operation	Auto-select User static selectable
Power Output	20dBm max ⁽¹⁾
Channel Bandwidth Spectrum	Selectable 10, 20 or 40MHz

Antenna Options

5dBi	Omni-directional
11dBi	Directional integrated patch Dual polarization Beamwidth: Azimuth: Horizontal 56°, vert 62° Elevation: Horizontal 38°, vert 26°

System

Data throughput ⁽²⁾	HT20 HT40
	99Mbps 99Mbps
Latency	<10mS
Encryption	TKIP / AES encryption up to 128 bit

Power

Power method	Passive PoE (see spec below)
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Mechanical (unit)

Casing	IP66 protection
Dimensions (L x W x D)	245mm x 245mm x 76mm (9.625" x 9.625" x 3")
Weight (11dBi version)	1.36kg / 3lb
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

Connectors

10/100 Electrical	1 x RJ45
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Approvals

FCC Part 15 Subpart C	Class B
FCC Part 15 Subpart B	Class B
FCC CFR Title 47 Part 15 Subpart E	
FCC OET 65	
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

WESII-DA-EA



Power Injection Module Specifications

Mechanical

Physical	Plastic housing,
Dimensions (LxWxH)	36 x 44 x 23mm
Weight	25g (0.8oz)
Interface	2 x RJ45 connectors

Environmental

Operating Temperature	-40° ~ +74° C (-40° ~ +158° F)
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Power

Power Supply	Input: 100 ~ 240Vac, 10W Output: 24Vdc, 500mA (UL / cUL listed wall transformer supplied)
Power-over-Ethernet (PoE)	Passive PoE "mid-span" compliant (pins 4,5 positive -pins 7,8 ground)
Indicator	LED - green
Connectors	DC Jack 2.5mm x 5.5mm

1. Territory specific

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

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