



Product Description

The WESII Wireless Ethernet System is a wireless transmission system that operates in the licence-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
- Passive midspan compliant PoE support
- IP66 protection class

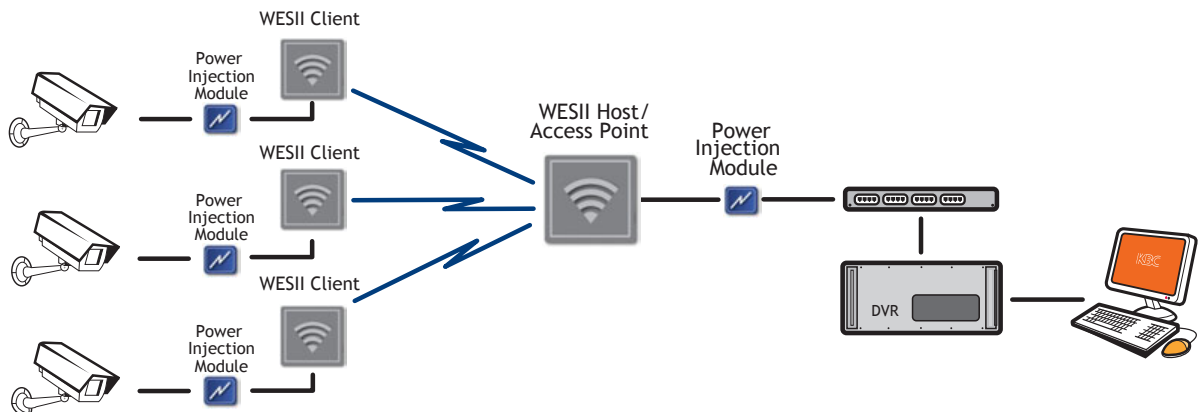


Typical System Configurations

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 802.11a 5GHz
 IEEE 802.11h ETSI DFS & TPC
 IEEE 802.11n MIMO

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)
 Transmit Power Control (ETSI TPC)
 Selectable 5, 20 or 40MHz

Power Output

23dBm max⁽¹⁾

Channel Bandwidth Spectrum

Antenna Options

5dBi

9dBi

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°

17dBi

System

Data throughput⁽²⁾

HT5	HT20	HT40
17Mbps	99Mbps	99Mbps

Latency

<10mS

Encryption

TKIP / AES encryption up to 128 bit

Power

Power method

Passive PoE (see spec below)

Mechanical (unit)

Casing

IP66 protection

Dimensions (L x W x D)

245mm x 245mm x 76mm

Weight (17dBi unit)

(9.625" x 9.625" x 3")

Installation

1.36kg / 3lb

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:

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

WESII-AA-AA

A: Single Point AP/Host
 B: Multi Point AP/Host
 C: Client

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

A: 5dBi Omni-directional
 B: 9dBi Directional
 C: 17dBi Directional

Wireless Point-to-Point Kit Part Numbers - available in North America

WESII-KT	Includes (2) WESII RF modules, (2) PIM, (2) 24Vdc PSU, plus all mounting hardware
WESII-KT-ED	Includes WESII-KT & encoder/decoder kit (EDKT-H) plus all mounting hardware
WESII-KT-P5	Includes WESII-KT, 5 port industrial PoE switch & power supply (ESUL5P-D & DR120-48)
WESII-KT-P8	Includes WESII-KT, 8 port industrial PoE+ switch & power supply (ESUG8P-D & DRP240-48)
WESII-KT-P5T	Includes WESII-KT, 5 port industrial PoE switch & extended temp power supply (ESUL5P-D & SDR120-48)
WESII-KT-P8T	Includes WESII-KT, 8 port industrial PoE+ switch & extended temp power supply (ESUG8P-D & SDR240-48)

Power Injection Module Specifications

Mechanical

Physical
 Dimensions (LxWxH)
 Weight
 Interface

Plastic housing,
 36 x 44 x 23mm
 25g (0.8oz)
 2 x RJ45 connectors

Power

Power Supply

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

Power-over-Ethernet (PoE)

Indicator

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

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products, and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.