WESII Wireless Ethernet System

Point-to-Point & Point-to-Multipoint

Supporting a 10/100 Ethernet interface, KBC's WESII units provide a reliable and efficient transmission solution where it's not possible or cost-effective to install cabling.

IEEE802.11a/n and 802.11h compliance means that the WESII units operate in the license-free 5GHz band; feature MIMO technology to increase system throughput and transmission distance, and comply with DFS and TPC standards (Dynamic Frequency Selection and Transmit Power Control). The units provide up to 100Mbps of usable throughput and employ WPA2 encryption to prevent unauthorised access.

Designed to operate in unconditioned environments, WESII units have weatherproof casings and wide operating temperature ranges.The units come with the option of a number of directional and omni-directional antennas.

The units are straightforward to set up and configure. They feature a built-in site survey tool to assess local, in-band noise which allows an appropriate transmission frequency to be selected. In addition, an antenna alignment tool allows you to check the signal strength at the client and the host, ensuring that the antennas are positioned to use the optimal signal path.

WESII Features

- IEEE802.11a/n & 802.11h compliant
- Up to 100Mbps throughput
- MIMO technology
- WPA2 encryption
- Range of antenna options
- Plug-and-play design
- WiFi connectivity
- Weatherproof casing & grounded terminal
- Wide operating temperature range (-40 - +74°C)
- Passive midspan compliant PoE support
- Antenna alignment & signal survey tools
- Suitable for long-range wireless deployment

Typical WES Sites

City and town centres
Campus locations
Borders and perimeters
Remote locations
Government & military sites
Ports and harbours
Industrial and commercial sites
Retail units
Apartment complexes
Transport corridors

Benefits

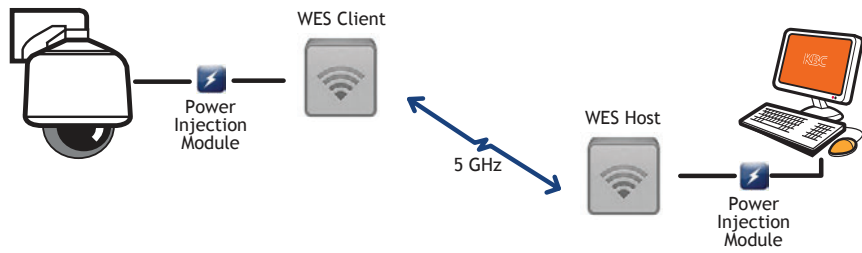| End User	Installer
✓ Connectivity where it's not practical or cost-efffective to install cabling	✓ Cost-effective
✓ Cost-effective deployment	✓ Easy to deploy - signal survey & antenna alignment tools
✓ Cost-effective maintenance	✓ Simple ongoing maintenance
	✓ Flexible solution
	✓ Hardened field units

Where there is no existing cabling or transmission infrastructure, WESII offers a cost-effective and easy-to-deploy option.
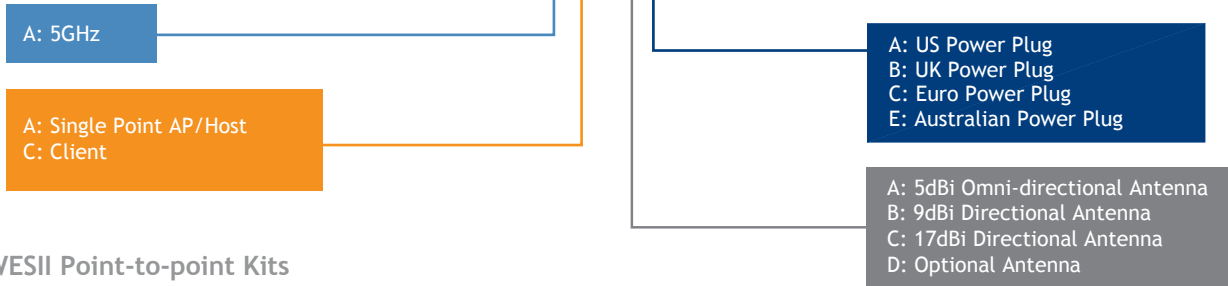
KBC
data delivered
www.**kbcnetworks**.com

WESII Point-to-Point

Typical System Configuration

WES Client

Power Injection Module

WES Host

Power Injection Module

5 GHz

Part Number Configurator

WESII-AA-AA

A: 5GHz

A: Single Point AP/Host
C: Client

A: US Power Plug
B: UK Power Plug
C: Euro Power Plug
E: Australian Power Plug

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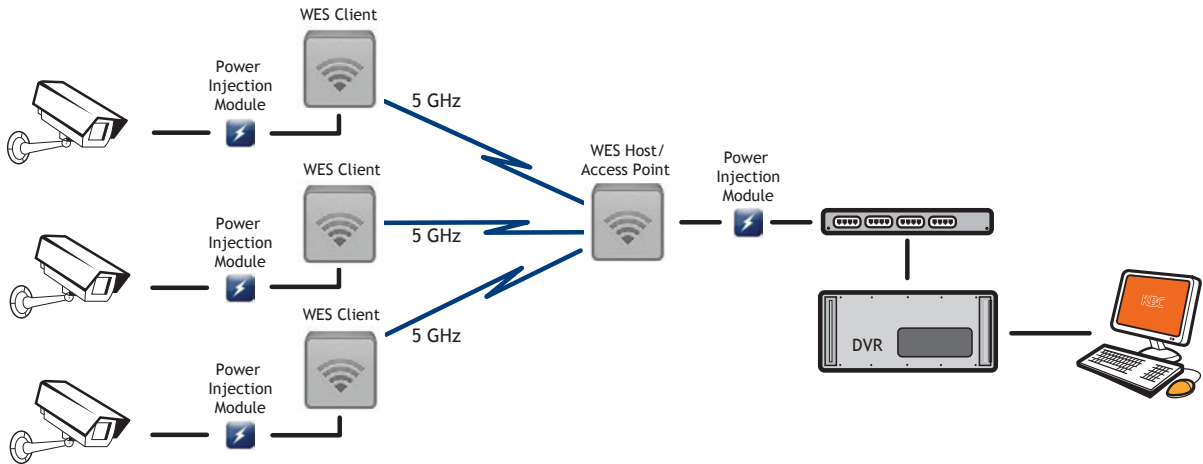D: Optional Antenna

WESII Point-to-point Kits

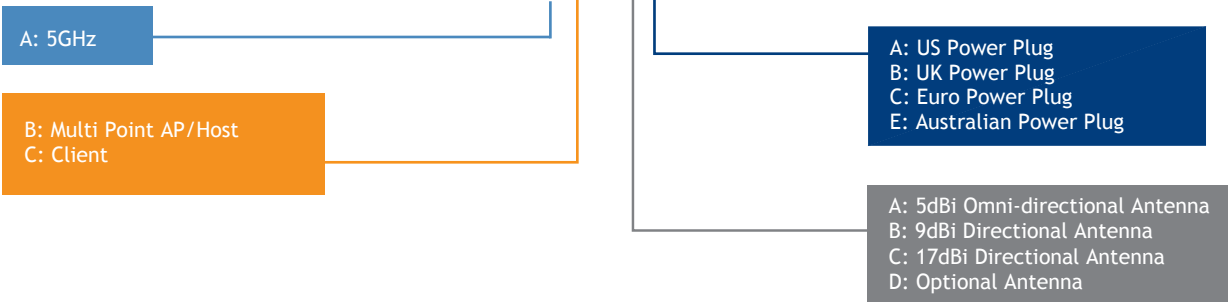|	
WESII-KT	Wireless Ethernet System kit: Includes 2 x WESII modules with 17dBi patch antennas
WESII-KT-ED	Wireless Ethernet System kit: Includes 2 x WESII modules with 17dBi patch antennas, encoder and decoder

WESII Point-to-Multipoint

Typical System Configuration

WES Client

Power Injection Module

5 GHz

WES Client

Power Injection Module

5 GHz

WES Client

Power Injection Module

5 GHz

WES Host/ Access Point

Power Injection Module

DVR

Part Number Configurator

WESII-AB-AA

A: 5GHz

B: Multi Point AP/Host
C: Client

A: US Power Plug
B: UK Power Plug
C: Euro Power Plug
E: Australian Power Plug

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

WESII units are supplied with a mid-span compliant power injection module, a 12Vdc 100mA power supply, plus assembly & mounting kit.