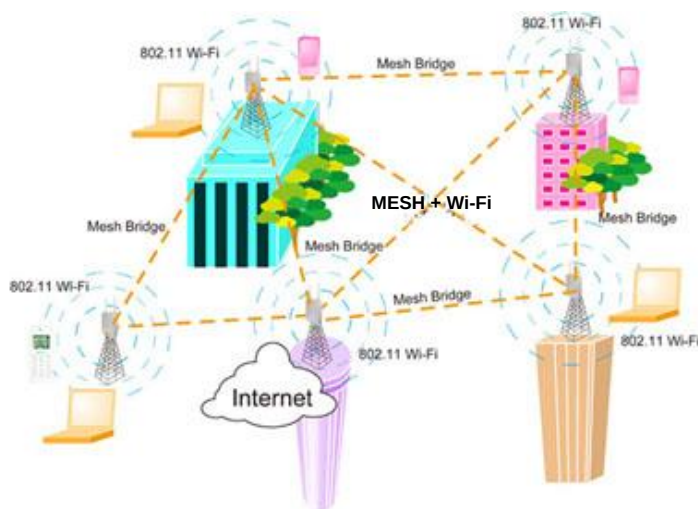


KW7500 Series MIMO/SISO WiMESH Outdoor Bridge 4.8-6.2 GHz

KW7500 Series is a high-performance wireless MIMO/SISO WiMESH network equipment. The wireless node can self-configure, dispose the network, and the network failure can be repaired automatically so that the overall performance and the usability achieves the optimization. This equipment makes use of advance algorithm to enhance the throughput and low time-out from the centre to the edge of the network. This equipment is not only the wireless MIMO/SISO WiMESH junction point, but also may simultaneously support the wireless hotspot covering. It will provide the wireless broadcast access and the high bandwidth audio frequency/data/video frequency service.

By connecting a KW7500 Series wireless Access Point to your wired network, users can enjoy wireless Internet access faster than ever before. Meanwhile, robust security ensures the Internet connection is protected.



KW7500 R1 Single RF
KW7500 R2 Dual RF

WiMESH®

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Functions

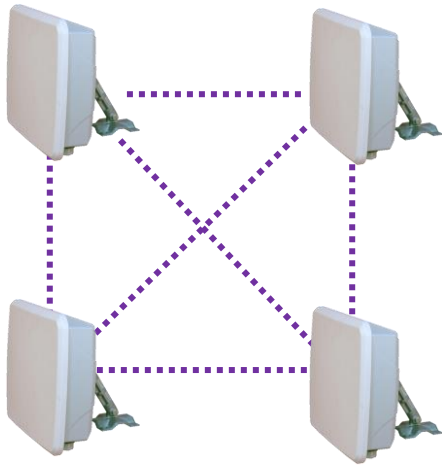
1. Long-distance connections via narrow bandwidth and adjustable TX power
2. Self-Configure networking with redundant links
3. Self-Heal network
4. Support Bandwidth Aware Routing Algorithm, to avoid heavy traffic path
5. Customized high-gain & TX power to extend connectable distance
6. Up to 256 Nodes in a WiMESH Group
7. The real throughput of 50 hops connection is 150Mbps+ (Dual RF, MIMO/SISO WiMESH)
8. Support Unstructured, Server / Client, Hybrid Server, Hybrid Client MESH Mode
9. Support Adding Bridges into MESH Protocol Rule via Wireless or Wired Port.
10. Support Software and Hardware Watchdog
11. Support Channel Scan to check wireless environment
12. Support Fast Roaming in Base Station / CPE connection
13. Support Tx on one Antenna, Rx on another Antenna.
14. Support Redundant link in Bridge mode (for KW50-O7500 / KW50-O7600)
15. RSSI Strength LED Support
16. Vent Support
17. Real-time Status : Site Name, FW Version, GPS Coordinates, Encryption, Up time, Link to Site, Channel, Neighbor, Tx Rate, Rx Rate, Tx Modulation, Rx Modulation, IP, MAC, Hop Count, Local RSSI, Remote RSSI, Total Throughput, Total Packets, Unicast Packets, Multicast Packets, Error Packets, Dropped Packets
18. Wireless Parameters : Operation Mode, Channel, Channel Bandwidth, Tx Power, Data Rate, Modulation, Max. Distance, Max. Association Stations, Multi Path Routing
19. Flash ROM 16Mbytes, SDRAM 128Mbytes

Customization

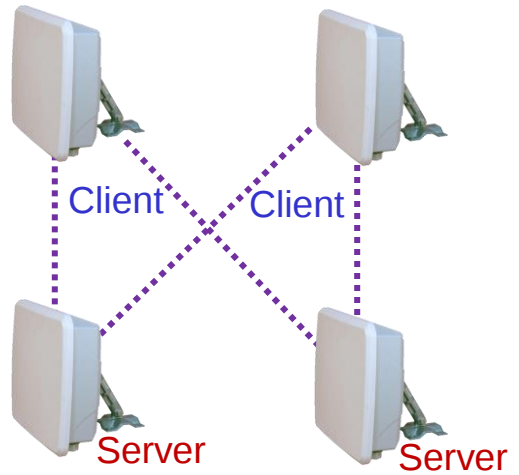
1. On-Board GPS Support
2. Extra Channel Bandwidth Selection – 6 / 7 / 8 / 12 / 14 MHz
3. Channel Frequency Drift
4. Tx Power Booster Modify
5. Support RF Module: 802.11a/g/n
6. Login logo Customization
7. Multiple Level Login account / password management



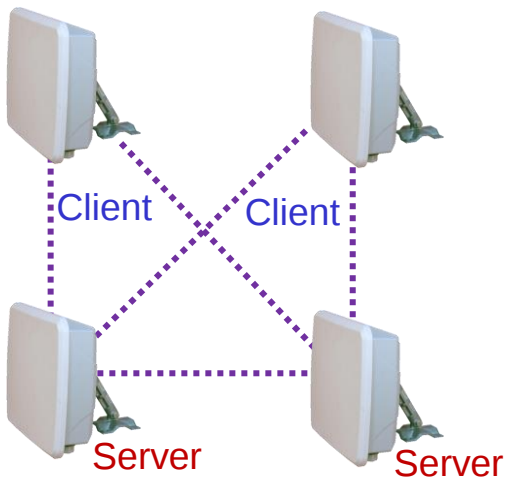
KW50-O7500 R1
KW50-O7500-5W R1S
KW50-O7400-15
KW50-O7400-15E



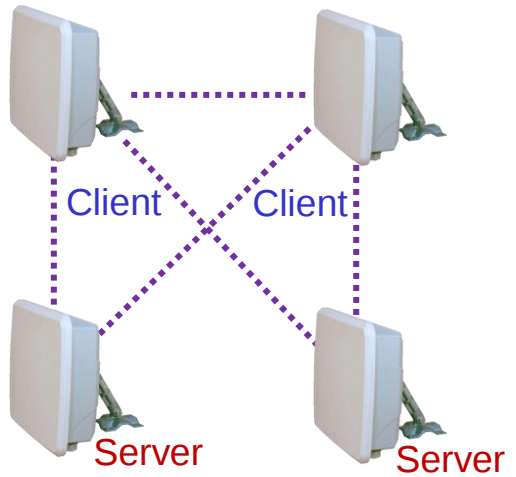
Unstructured Mode



Server / Client Mode



Hybrid Server / Client Mode



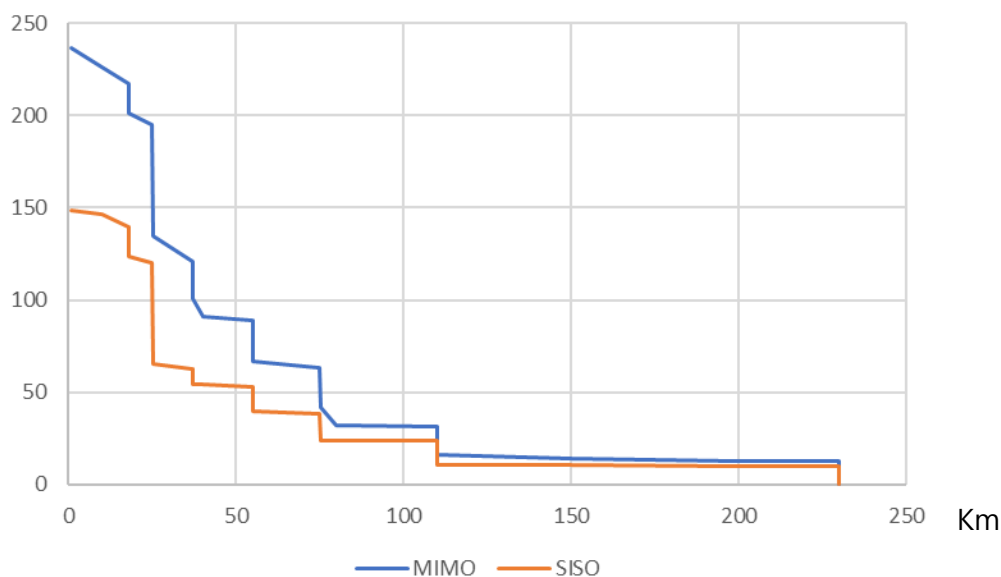
Hybrid Client / Server Mode

WiMESH®	KW50-O7500 R1	KW50-O7500-5W R1S	KW50-O7400-15	KW50-O7400-15E
HARDWARE				
LAN	1 x 10/100/1000 Mbps RJ-45 with Auto-MDIX			
Power Over Ethernet	Yes, 802.3af/at, w/ Surge Voltage 6KV / Discharge Current 10KA / Response Time < 5ns / Standard: IEC64000-4-5			
Default button	Yes	Yes	Yes	Yes
PHYSICAL				
Antenna	2 N Connectors MIMO	1 N Connectors SISO	2x2 15 dBi MIMO	1x1 15 dBi + 1 N Connector MIMO
Frequency	4.8-6.2 GHz	4.8-6.2 GHz	4.8-6.2 GHz	4.8-6.2 GHz
Enclosure	Metal Enclosure, IP68 verified			
Maximum Output Power	25 dBm	37 dBm	25 dBm	25 dBm
Sensitivity	-95 dBm	-98 dBm	-95 dBm	-95 dBm
Dimension	259 x 250 x 75 mm	259 x 250 x 75 mm	259 x 250 x 75 mm	259 x 250 x 75 mm
Weight	1.8 Kg	2.0 Kg	2.0 Kg	2.0 Kg
ENVIRONMENT				
Operating Temperature	-30 ~ 75C	-30 ~ 75C	-30 ~ 75C	-30 ~ 75C
Storage Humidity	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH
FEATURE				
Operation Modes	WiMESH			
Link Test	Yes (Local / Remote)	Yes (Local / Remote)	Yes (Local / Remote)	Yes (Local / Remote)
Max. MESH Nodes	256	256	256	256
Spanning Tree	Yes	Yes	Yes	Yes
VLAN	Yes (802.1Q)	Yes (802.1Q)	Yes (802.1Q)	Yes (802.1Q)
QoS	Yes (802.1p)	Yes (802.1p)	Yes (802.1p)	Yes (802.1p)
MAP	Yes	Yes	Yes	Yes
Multi Path	4 (Max.)	4 (Max.)	4 (Max.)	4 (Max.)
Performance	30,000 PPS	15,000 PPS	40,000 PPS	45,000 PPS
Channel Bandwidth (MHz)	52 / 40 / 30 / 20 / 15 / 10 / 5	52 / 40 / 30 / 20 / 15 / 10 / 5	52 / 40 / 30 / 20 / 15 / 10 / 5	52 / 40 / 30 / 20 / 15 / 10 / 5
Dual FW Image	Yes	Yes	Yes	Yes
Encryption	WPA / WPA2			
MANAGEMENT				
Supported Interface	Web / ICMP / SSH	Web / ICMP / SSH	Web / ICMP / SSH	Web / ICMP / SSH
SNMP	Yes, MIB 2	Yes, MIB 2	Yes, MIB 2	Yes, MIB 2
Watch dog	Software / Hardware	Software / Hardware	Software / Hardware	Software / Hardware
IGMP	V2 / V3 Snooping	V2 / V3 Snooping	V2 / V3 Snooping	V2 / V3 Snooping
NTP	Yes	Yes	Yes	Yes
Windows Utility	Yes (WiVIEW 2)	Yes (WiVIEW 2)	Yes (WiVIEW 2)	Yes (WiVIEW 2)
Information	Device name, IP address, MAC address, Frequency, RSSI			

MIMO (Single RF)

Modulation	BPSK			QPSK			16QAM		64QAM		
FEC	1/2	1/2	3/4	1/2	1/2	3/4	1/2	3/4	2/3	3/4	5/6
Throughput @5MHz Mbps	1	2	3	10	15	20	23	25			
Throughput @10MHz Mbps	2	5	7	21	31	43	48	53			
Throughput @15MHz Mbps	3	7	11	30	45	59	65	70			
Throughput @20MHz Mbps	5	10	15	48	72	95	105	112			
Throughput @30MHz Mbps	7	16	24	74	108	137	145	164			
Throughput @40MHz Mbps	10	21	33	99	144	182	193	220			
Throughput @52MHz Mbps	11	23	37	112	163	205	218	249			
Sensitivity @ 20MHz dBm	-90	-89	-87	-84	-81	-78	-76	-74			
Output Power @ 20MHz dBm	26	25	25	24	24	23	23	23			

Throughput
Mbps



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SISO (Single RF)

Modulation	BPSK	QPSK		16QAM		64QAM		
FEC	1/2	1/2	3/4	1/2	3/4	2/3	3/4	5/6
Throughput @5MHz Mbps	1	2	3	4	7	9	10	13
Throughput @10MHz Mbps	2	5	7	9	15	20	24	27
Throughput @15MHz Mbps	4	7	11	15	23	31	38	42
Throughput @20MHz Mbps	5	10	16	20	32	42	48	56
Throughput @30MHz Mbps	8	15	24	31	49	64	73	86
Throughput @40MHz Mbps	10	22	33	46	69	92	103	126
Throughput @52MHz Mbps	12	26	40	55	83	110	124	151
Sensitivity @ 20MHz dBm	-90	-89	-87	-84	-81	-78	-76	-74
Output Power @ 20MHz dBm	23	23	23	22	22	21	21	21



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