



Long Distance, High Bandwidth KW8800 Series P2P WiTDM® Outdoor Bridge

700MHz / 900MHz / 2.3~2.5GHz 2.7~2.9GHz / 3.5GHz / 4.7~4.9GHz / 4.9~6.1GHz

Formosa Wireless Broadband product line are adopting Wireless TDMA concept to provide an affordable and reliable rural connectivity. All of products are high-performance outdoor-deployable wireless bridge that provides wireless connectivity between multiple network locations. With the high throughput and long-distance transmission, it is the appropriate backhaul solution for Carriers, Service Providers and Enterprises.

Key Features & Benefits

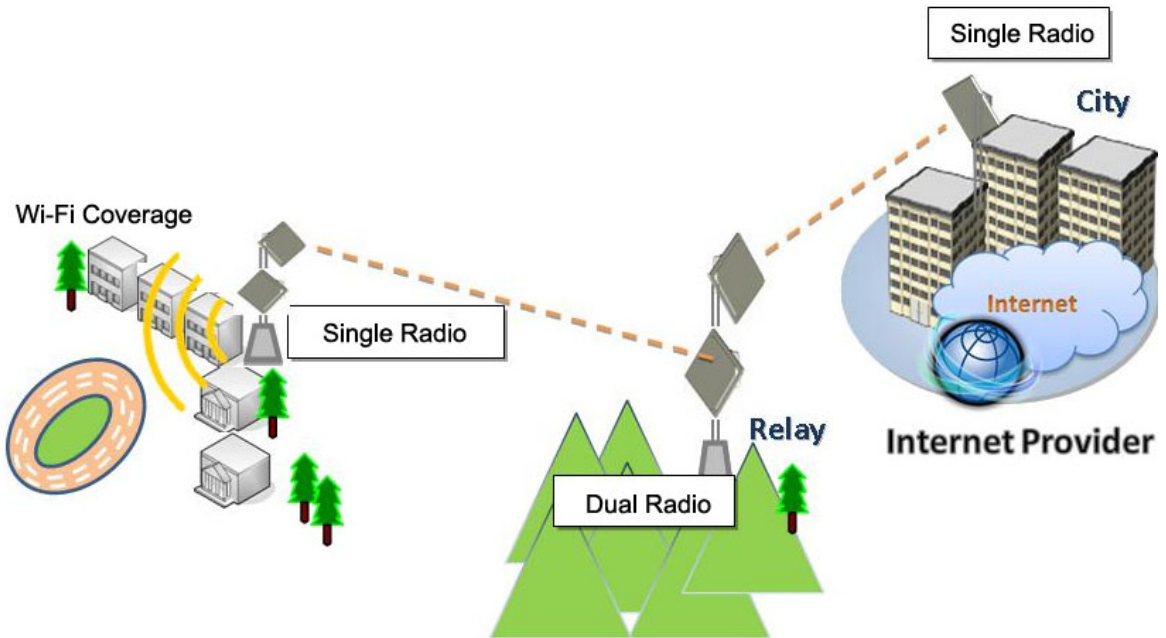
- Reliable Outdoor Enclosure
- IP67 Qualified
- Waterproof
- Vent design
- Good Balance on low Cost and High Performance
- Actual reachable testing range > 50 km
- High throughput
- Support point to point , point to multi point and Relay functions
- Ready for Next Generation Technology
- Software Features
- High security (AES)
- Ease of Installation (Real time Link Test for Local and Remote RSSI)
- Transmit Power Control
- Bandwidth Control (40 / 20 / 10 / 5 MHz)
- Wireless TDMA (TDD Mode)
- VLAN Support
- **KW8850 (60Mbps@40Km) / KW8800 (40Mbps@40Km)**

WiTDM®

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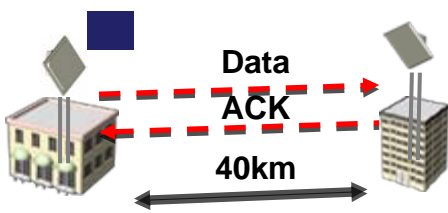
FORMOSA
Wireless Systems Corp.



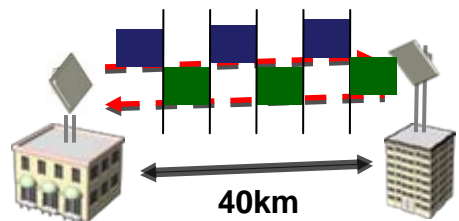


Single Radio, KW8800 Series

Dual Radio, KW8900 Series



Each data likes to transmit 80km
 Poor performance, about < 1 Mbps
Wi-Fi



Test Result
 40 Mbps @ 40km (KW8800)
 60 Mbps @ 40km (KW8850)
WiTDM

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Performance Test Reference

Tested by KWA-O8800-I

LOS

Test 1	A	B	C
Distance (L.O.S)	0.2KM	30KM	43KM
RSSI (dBm)	-29	-69	-73
Throughput	43.9Mbps	40Mbps	43Mbps
Test Location	Taiwan HsinChu	Taiwan MiaoLi	China Jiangsu

NLOS

Test 2B	D	E	F	G
Distance	1.22KM (None L.O.S)	1.5KM (Near L.O.S)	8KM (Near L.O.S)	38KM (Near LOS)
RSSI (dBm)	-69	-67	-59	-74
Throughput	26.6Mbps	38.6Mbps	37Mbps	30Mbps
Test Location	Taiwan HsinChu	Taiwan Taipei	Taiwan HsinChu	Taiwan MiaoLi

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HARDWARE	
Memory	16MB Flash + 32MB SDRAM
LAN	1 x 10/100BaseT RJ-45 with Auto-MDIX
Power Over Ethernet (PoE)	Yes (802.3af)
Default Button	Yes
Enclosure	Metal Case, IP 67 Verified
Lighting Protect	From Ethernet and Antenna (N Connector Model Only)
FEATURE	
Operating Mode	Bridge (PTP)
Link Test Tool	Yes (Real Time Local and Remote RSSI)
Radio Bandwidth	5 / 10 / 20 / 40 Mbps
TDMA	Yes
Link aggregation	Yes (For Dual RF Model, R2)
TDM Coordination	Yes
Channel Selection	Yes
DFS/TPC	Yes
Spanning Tree (STP)	Yes
VLAN	Yes (802.1Q)
NetBIOS Name	Yes
Space In Meters	Yes (Auto)
NTP Client	Yes
CLI	Yes (SSH)
Backup / Restore	Yes
System Log	Yes
Remote Log Server	Yes
SECURITY	
Encryption	AES
MANAGEMENT	
Web Base Management	Yes
SNMP V.2	Private MIB, 802.11 MIB
Windows Tool	Yes (Layer 2, Coming Soon)
PHYSICAL	
Operating Temperature	-30 ~ 80C
Operating Humidity	10 ~ 95% RH

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Model	Frequency MHz	Antenna dBi	Output Power dBm	Sensitivity dBm	Dimension mm	Weight Kg
KWM-O8800	703-718	N Jack	28	-92	259 x 250 x 75	1.8
KWM-O8801	763-778	N Jack	28	-92	259 x 250 x 75	1.8
KWM-O8801-I	763-778	9	28	-92	335 x 335 x 81	2.9
KWN-O8800	903-928	N Jack	23	-92	259 x 250 x 75	1.8
KWN-O8800-I	903-928	12	23	-92	335 x 335 x 81	2.9
KWF-O8800	2,312-2,392	N Jack	23	-92	259 x 250 x 75	1.8
KWF-O8800-I	2,312-2,392	19	23	-92	335 x 335 x 81	2.9
KWF-O8801	2,312-2,472	N Jack	23	-92	259 x 250 x 75	1.8
KWF-O8801-I	2,312-2,472	19	23	-92	335 x 335 x 81	2.9
KWG-O8850	2,412-2,472	N Jack	23	-92	259 x 250 x 75	1.8
KWG-O8850-I	2,412-2,472	19	23	-92	335 x 335 x 81	2.9
KWG-O8800	2,412-2,472	N Jack	23	-92	259 x 250 x 75	1.8
KWG-O8800-I	2,412-2,472	19	23	-92	335 x 335 x 81	2.9
KWH-O8800	2,700-2,900	N Jack	23	-92	259 x 250 x 75	1.8
KWQ-O8800	3,300-3,800	N Jack	26	-92	259 x 250 x 75	1.8
KWA-O8850	5,120-6,060	N Jack	25	-90	259 x 250 x 75	1.8
KWA-O8850-I	5,120-6,060	23	25	-90	335 x 335 x 81	2.9
KWA-O8800	5,120-6,060	N Jack	25	-90	259 x 250 x 75	1.8
KWA-O8800-I	5,120-6,060	23	25	-90	335 x 335 x 81	2.9
KWAA-O8900-I	5,120-6,060	23 + N	25	-90	335 x 335 x 81	2.9
KWA-O8801	4,700-4,900	N Jack	18	-92	259 x 250 x 75	1.8
KWA-O8801-I	4,700-4,900	23	18	-92	259 x 250 x 75	2.9
KWA-O8802	5,900-6,060	N Jack	23	-92	259 x 250 x 75	1.8
KWA-O8802-I	5,900-6,060	23	23	-92	259 x 250 x 75	2.9



KWA-O8800-I
KWA-O8801-I
KWA-O8802-I
KWA-O8850-I
KWAA-O8900-I



KWG-O8800-I
KWG-O8850-I
KWN-O8800-I
KWF-O8800-I
KWF-O8801-I



KWA-O8880 KWM-O8801
KWA-O8801 KWN-O8800
KWA-O8802 KWF-O8800
KWA-O8850 KWH-O8800
KWG-O8800 KWQ-O8800
KWG-O8850 KWAA-O8900

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