



# 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.

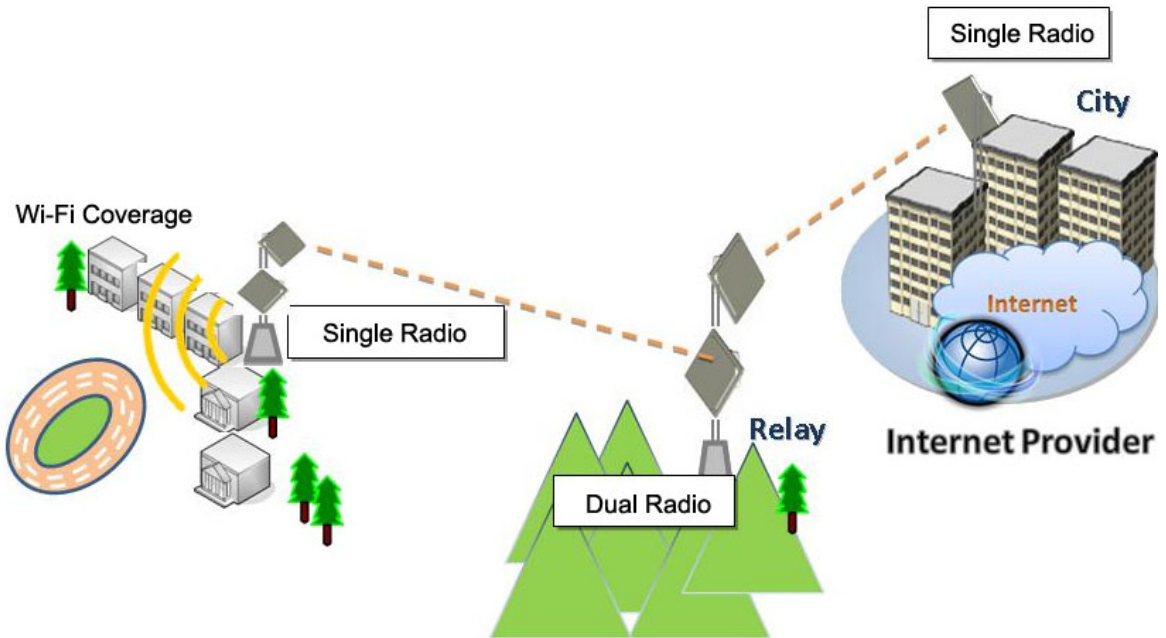
## Key Features & Benefits

- 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®**

**WNet**  
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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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<b>HARDWARE</b>	
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)
<b>FEATURE</b>	
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
<b>SECURITY</b>	
Encryption	AES
<b>MANAGEMENT</b>	
Web Base Management	Yes
SNMP V.2	Private MIB, 802.11 MIB
Windows Tool	Yes (Layer 2, Coming Soon)
<b>PHYSICAL</b>	
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
<b>KWG-O8850</b>	<b>2,412-2,472</b>	<b>N Jack</b>	<b>23</b>	<b>-92</b>	<b>259 x 250 x 75</b>	<b>1.8</b>
<b>KWG-O8850-I</b>	<b>2,412-2,472</b>	<b>19</b>	<b>23</b>	<b>-92</b>	<b>335 x 335 x 81</b>	<b>2.9</b>
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-O8801	3,650-3,710	N Jack	22	-90	259 x 250 x 75	1.8
KWQ-O8801-I	3,650-3,710	18	22	-90	335 x 335 x 81	2.9
<b>KWA-O8850</b>	<b>5,120-6,060</b>	<b>N Jack</b>	<b>25</b>	<b>-90</b>	<b>259 x 250 x 75</b>	<b>1.8</b>
<b>KWA-O8850-I</b>	<b>5,120-6,060</b>	<b>23</b>	<b>25</b>	<b>-90</b>	<b>335 x 335 x 81</b>	<b>2.9</b>
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
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

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KWA-O8800-I  
 KWA-O8801-I  
 KWA-O8802-I  
 KWA-O8850-I



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



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



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