

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

400MHz / 700~900MHz / 1.8~1.9GHz / 2.3~2.5GHz
2.7~2.9GHz / 3.5GHz / 4.4~4.9GHz / 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.

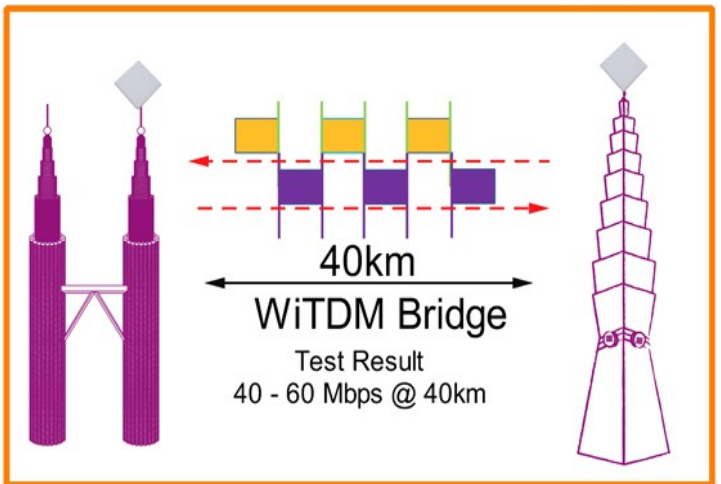
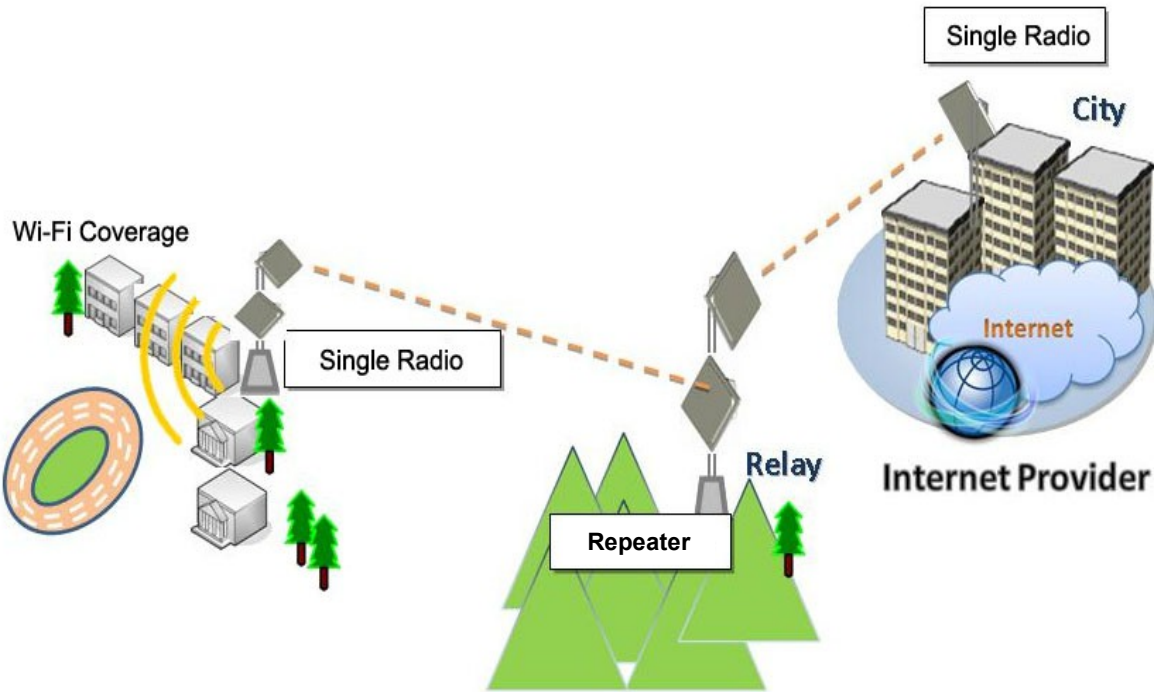
Key Features & Benefits

- Anti-Interference
- IP68 Qualified / Reliable Outdoor Enclosure
- Waterproof
- Vent design
- TDD QoS
- Good Balance on low Cost and High Performance
- Actual reachable testing range > 50 km
- High throughput
- Support point to point, CPE for point to multi point
- Ready for Next Generation Technology
- Software Features
- High security (AES256)
- 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®

TOUCH AND CONNECT!™

WNet
Green Network™



WiTDM®

TOUCH AND CONNECT!™

WNet
Green Network™

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

WiTDM®

TOUCH AND CONNECT!™

WNet
Green Network™

WiVIEW 2, Managed Tool

No	Status	Model Name	IP Address	Location	Routing	Description
1	●	KWA-O1850-I	192.168.3.1		192.168.3.2	WIFDD
2	●	KWA-O1850-I	192.168.3.2		192.168.3.1	WIFDD
3	●	KWA-O1850-I	192.168.3.3		192.168.3.4	WIFDD
4	●	KWA-O1850-I	192.168.3.4		192.168.3.3	WIFDD
5	●	KWA-O8800-I	192.168.3.5		192.168.3.6	WITDM
6	●	KWA-O8800-I	192.168.3.6		192.168.3.5	WITDM
7	●	KWG-O6020-I	192.168.3.7		192.168.3.10	BGN_AP
8	●	KWA-O6020-I	192.168.3.8		192.168.3.9	Bridge
9	●	KWA-O6020-I	192.168.3.9		192.168.3.8	Bridge
10	●	KWA-O670R	192.168.3.10		192.168.3.7	BGN_Repeater



Bridge Location on the MAP

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 68 Verified
Lighting Protect	From Ethernet
FEATURE	
Operating Mode	Bridge (PTP) / P2MP CPE
Link Test Tool	Yes (Real Time Local and Remote RSSI)
Radio Bandwidth	5 / 10 / 20 / 40 Mbps
TDMA	Yes
TDM Coordination	Yes
QoS	TDD / 802.1P
Channel Selection	Yes
Auto Channel	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 256bit
MANAGEMENT	
Web Base Management	Yes
SNMP V.2	Private MIB, 802.11 MIB
Windows Tool	Yes, WiVIEW 2
PHYSICAL	
Operating Temperature	-30 ~ 80C
Operating Humidity	10 ~ 95% RH

WiTDM®

TOUCH AND CONNECT!™

WNet
Green Network™

Model	Frequency MHz	Antenna dBi	Output Power dBm	Sensitivity dBm	Dimension mm	Weight Kg
KW04-O8800	420-450	N Jack	27	-93	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	410 x 410 x 85	3.0
KWN-O8800	903-928	N Jack	23	-92	259 x 250 x 75	1.8
KWN-O8800-I	903-928	12	23	-92	410 x 410 x 85	3.0
KW19-O8800	1,850-1,915	N Jack	30	-95	259 x 250 x 75	1.8
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	330 x 300 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	330 x 300 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	330x 300x 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
KWQ-O8800	3,400-3,700	N Jack	23	-90	259 x 250 x 75	1.8
KWQ-O8800-I	3,400-3,700	18	23	-90	330 x 300 x 81	2.9
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	330 x 300 x 81	2.9
KWR-O8850	4,400 ~ 4,900	N Jack	20	-92	259 x 250 x 75	1.8
KWR-O8850-I	4,400 ~ 4,900	21	20	-92	335 x 335 x 81	2.9
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
KWR-O8800	4,400 ~ 4,900	N Jack	20	-92	259 x 250 x 75	1.8
KWR-O8800-I	4,400 ~ 4,900	21	20	-92	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
KWA-O8801	4,920-5,100	N Jack	18	-92	259 x 250 x 75	1.8
KWA-O8801-I	4,920-5,100	23	18	-92	335 x 335 x 81	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	335 x 335 x 81	2.9



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



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



KW04-8800	KW19-8800
KWM-O8801	KWA-O8800
KWN-O8800	KWA-O8801
KWF-O8800	KWA-O8802
KWH-O8800	KWA-O8850
KWQ-O8801	KWG-O8800
KWR-O8800	KWG-O8850
KWR-O8850	KWL-O8801



WiTDM®

TOUCH AND CONNECT!™

