

5GHz FDD Radio System for E1/T1 Bridge KW1850 Series P2P WiFD²_® Outdoor Backhaul Bridge Ultra Low Latency KWA-O1850 Series

Formosa KW1850 series of all outdoor bridge are designed for point to point application. These bridges with functions of PoE (Power over Ethernet) power supply, waterproof, dustproof and coolant can build up a low packet latency and high bandwidth connection between two buildings. Such marvelous products are so suitable to be set up outdoors. Radio in the KW1850 series support capabilities ranging from 1.6 Mbps to an industry-leading 120 Mbps of aggregate user throughput, and 100BaseT interfaces. Featuring native FDD and native Ethernet transport and full software configurability and upgradeability, the KW1850 series was designed to meet demanding backhaul requirements of enterprise organizations and service providers seeking the performance benefits of an all-outdoor configuration.

Security, Management and Data Networking. The KW1850 series deliver the highest data and management security available with 256-bit AES encryption and secure SNMP v2 management, together with enhanced fault management and diagnostic features.





WiVIEW 2, Managed Tool

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No	Sta	atus	Model Name	IP Address	Location	Routing	Description	
1		•	KWA-01850-I	192.168.3.1		192.168.3.2	WiFDD	
2		•	KWA-01850-I	192.168.3.2		192.168.3.1	WiFDD	
3		•	KWA-01850-I	192.168.3.3		192.168.3.4	WIFDD	
4		•	KWA-01850-I	192.168.3.4		192.168.3.3	WIFDD	
5		•	KWA-08800-I	192.168.3.5		192.168.3.6	WITDM	
6		•	KWA-08800-I	192.168.3.6		192.168.3.5	WITDM	
7		•	KWG-06020-I	192.168.3.7		192.168.3.10	BGN_AP	
8		•	KWA-06020-I	192.168.3.8		192.168.3.9	Bridge	
9		•	KWA-06020-I	192.168.3.9		192.168.3.8	Bridge	
10		•	KWA-0670R	192.168.3.10		192.168.3.7	BGN_Repeater	



Bridge Location on the MAP

TOUCH AND CONNECT!



Formosa Wireless Systems corp. http://www.tw-wireless.com tel: +886-3-5600768 fax: +886-3-5600786



KWA-O1850 Series			
Tuning Resolution	1 MHz		
Output Power (full power)	+25 dBm BPSK1/2, +200	dBm 64QAM3/4	
Power Control Step Size	1 dB		
Receiver Threshold (BER=10-6)		20 MHz	40 MHz
64QAM 3/4		-70	-68
64QAM 1/2		-75	-73
16QAM 3/4		-78	-76
16QAM 1/2		-82	-80
QPSK 3/4		-84	-82
QPSK 1/2		-86	-84
BPSK 3/4		-88	-86
BPSK 1/2		-90	-88
Throughput (Mbps)		70	125
Non-overlapping Channels		2	

Configuration and Management			
WEB GUI	Navigating the GUI		
SNMP	SNMP v1/v2		
QoS	802.1P (Ethernet)		
Diagnostic and Testing			
Ethernet Loopback			
No Loopback	Default		
External Local Loopback	External loopback modes are used in conjunction with an external test source		
External Remote Loopback	External loopback modes are used in conjunction with an external test source		
	Internal loopback uses an internal test source, and sends the test source signal		
T, 1T 1 1	across the link, looped at the remote radio's interface, returned to the local		
Internal Loopback	radio, and looped at the local radio's interface back to the source. The inputs		
	at both ends are looped back at the line level.		
PING Remote Birdge			
D : 10: 1			

Protocol Stack

SNMP, HTTP, UDP, TCP, IP v4, DNS,









System (Continue)			
Maximum RSL	-15 dBm error free		
	0 dBm no damage		
Maximum Packet Size	1514 bytes		
Data Security	256-bit AES encryption		
Packets Per Second	20,000+ packets/s		
End to End Packet Latency	<1ms		

Physical			
Physical Configuration	Outdoor Unit (ODU)		
Operation Temperature	-20 to +75 $^\circ \rm C$; -4 to 167 $^\circ \rm F$		
Full Specification Temperature	-20 to +75 °C		
Environmental	NEMA 4/IP68		
Humidity	100% condensing		
Interface			
Ethernet	RJ-45(F)		
Speed	10/100BaseT (POE)		
Duplex	Half, Full, Auto-MDIX		
Compliance	802.3		
DC Power	48VDC, <20W		





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Model	Frequency MHz	Antenna dBi	Output Power dBm	Sensitivity dBm	Dimension mm	Weight Kg
KWA-01850	5,120-5,900	N / N Jack	23 (200mW)	-90	259 x 250 x 75	1.8
KWA-01850-I	5,120-5,900	23 / N Jack	23 (200mW)	-90	335 x 335 x 81	2.9





KWA-O1850-I



KWA-01850



