

# KW9500 Series Super Bridge

## MIMO Outdoor Bridge

### 4.8-6.2 GHz

Formosa KW9500 Wireless MIMO Bridge provides reliable and predictable Wireless Bridge Connection.

With these wireless access points you can:

Augment throughput for high-bandwidth wireless applications

Protect your investment in wireless networking

Increase network reliability for high bandwidth applications

Real Throughput Up to 250 Mbps

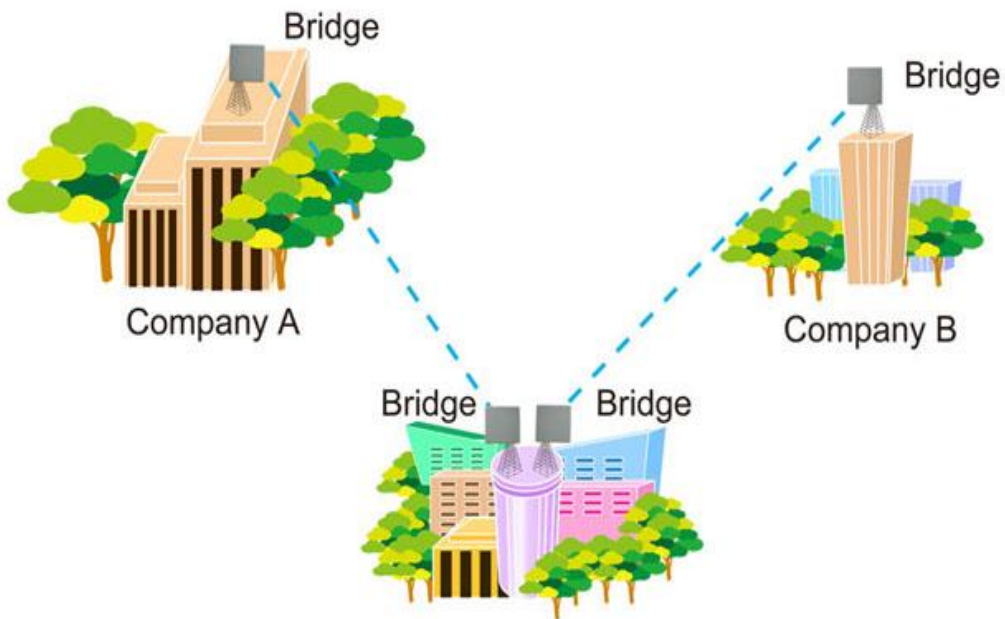
Multiple input, multiple output technology for enhanced reliability

5GHz radio module

Distance up to 50Km+ (KW50-O9400-I, Up to 20Km)

On-Board GPS Support (Option)

Extra Channel Bandwidth Selection – 6 / 7 / 8 / 12 / 14 MHz (Option)



KW9500 R1 (Single Radio), KW9500 R2 (Dual Radios)

**WiLINX**®  
Super Bridge



**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



KW50-O9500 R1  
KW50-O9400-15  
KW50-O9500 R1S  
KW50-O9500 R2



KW50-O9400-I



KW50-O9410-I

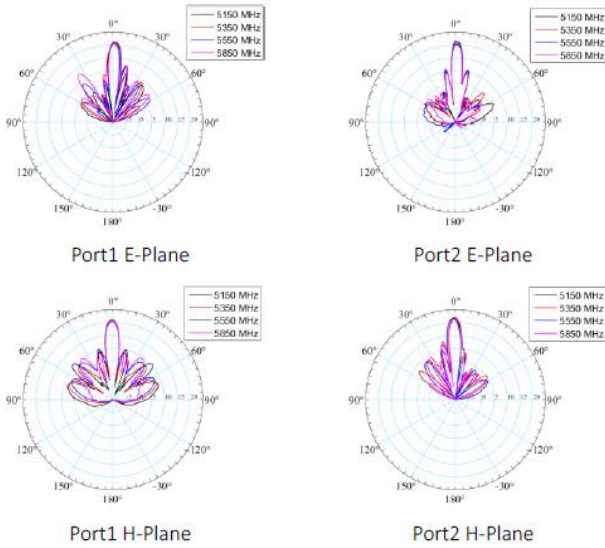
HARDWARE	
LAN	1 x 10/100/1000 BaseT RJ-45 with Auto-MDIX
Power Over Ethernet (PoE)	Yes (802.3at)
Default Button	Yes
Enclosure	IP 68 Verified
Surge Protect	Surge Voltage 6KV / Discharge Current 5KA Response Time < 5ns / Standard: IEC64000-4-5
FEATURE	
Operating Mode	Base Station / Client / Bridge
Link Test Tool	Yes (Real Time Local and Remote RSSI)
Radio Bandwidth	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 52MHz
Wireless Standard	WiLINX Private Standard
WMM	Yes
QoS	802.1P
Channel Selection	Yes
Auto Channel	Yes
DFS/TPC	Yes
Auto Power	Yes
IGMP	Yes (V2, V3 Snooping)
Spanning Tree (STP)	Yes
VLAN	Yes (802.1Q)
GPS Coordinates	Yes
Space In Meters	Yes
GPS	Yes (Option)
NTP Client	Yes
CLI	Yes (SSH)
Backup / Restore	Yes
Dual Firmware Image	Yes (Redundant)
System Log	Yes
Remote Log Server	Yes
Hot Standby Backup	Yes (Only for KW50-O9500)
SECURITY	
Encryption	AES 128bit
MANAGEMENT	
Web Base Management	Yes
SNMP	V2, V3 Private MIB, 802.11 MIB
Windows Tool	Yes, WiVIEW 2
Information	Device name, IP address, MAC address, Frequency, RSSI
PHYSICAL	
Operating Temperature	-30 ~ 80°C
Operating Humidity	10 ~ 95% RH

Model	Antenna dBi	Output Power dBm	Sensitivity dBm	Dimension mm	Weight Kg
KW50-O9500 R1	2x N Jack	25	-95	259 x 250 x 75	1.8
KW50-O9400-I	2x2 20 dBi	25	-95	380x 380 x 90	3.0
KW50-O9400-15	2x2 15 dBi	25	-95	259 x 250 x 75	2.5
KW50-O9500 R1S	1x N Jack SISO	23	-95	259 x 250 x 75	1.8
KW50-O9410-I (1RF 1x1)	1x1 23 dBi SISO	25	-95	335 x 335 x 81	2.9
KW50-O9500 R2	4x N Jack	25 / 25	-95 / -95	259 x 250 x 75	2.0

Modulation	BPSK		QPSK		16QAM		64QAM		
	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	

# Spec of Build-in Antenna – KW50-O9400-I

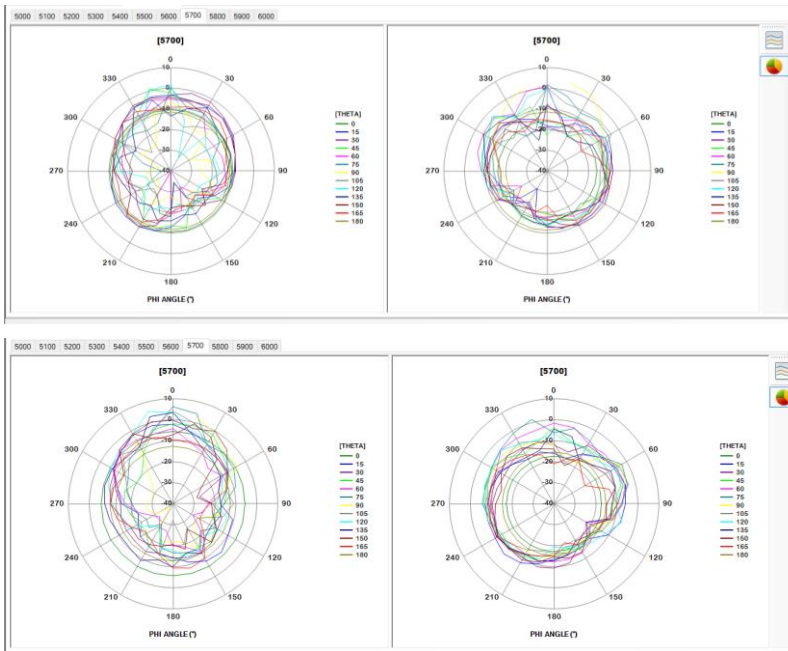
## Radiation Patterns



KW50-O9400-I

Frequency : 5150-5850 MHz  
 Gain : 20dBi  
 VSWR : <2.0  
 Beamwidth /H : 9°  
 Beamwidth /V : 9°  
 Polarization : Dual Linear; V&H  
 Impedance : 50 ohms

# Spec of Build-in Antenna – KW50-O9400-15



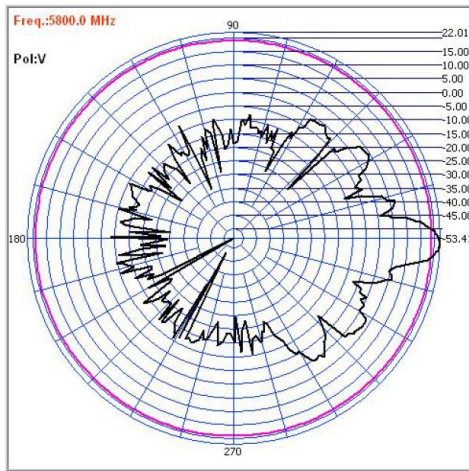
KW50-O9400-15

Frequency : 5000-6000 MHz  
 Gain : 13~15dBi  
 VSWR : <2.0  
 Beamwidth /H : 45°  
 Beamwidth /V : 45°  
 Polarization : Dual Linear; V&H  
 Impedance : 50 ohms

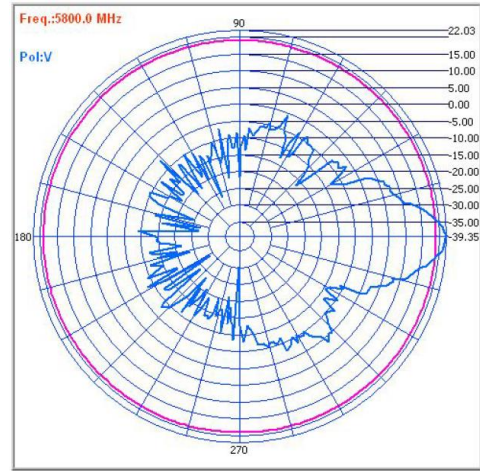
# Spec of Build-in Antenna – KW50-O9410-I

## Electrical Specifications:

Frequency Range :	4.9~ 6.0 GHz
VSWR :	≤ 2.0
Impedance :	50Ω ± 5Ω
Gain :	23 dBi
Polarization :	Vertical
Power Handling :	10 Watt
Beam Width :	H: 11.4 / E: 10.6



H Plan



V Plan

