

## SKYWAY 5000 SERIES

5.8GHz HIGH POWER  
BRIDGE/ROUTER FAMILY



THE SKYWAY 5000 HIGH-POWERED BRIDGE/ROUTER IS EQUIPPED WITH A 400MW RADIO THAT WILL GIVE YOU A DISTINCT ADVANTAGE BEYOND WHAT MAY BE EXPECTED FROM ANY OTHER 5.8GHz PRODUCT. SOLECTEK, CONTINUING TO MAXIMIZE THE POTENTIAL OF WIRELESS, OFFERS THE SKYWAY 5000, AN ENTERPRISE-CLASS SOLUTION FOR SUPERIOR RANGE AND FUNCTIONALITY.

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### TECHNOLOGY SUMMARY

Following Solectek's tradition in long distance wireless networking, Solectek's SkyWay 5000 Series improves upon the successful 2.4GHz SkyWay Series products with a new, cleaner 5.8GHz frequency band product line and even faster data rates.

With data rates up to 72Mbps, SkyWay 5000 delivers more data capacity per sector than ever before. With such capacity, users can now download large data files, high-resolution images, video clips, and MP3 files within a matter of seconds. Even streaming multimedia can now be delivered seamlessly.

The introduction of Orthogonal Frequency Division Multiplexing (OFDM) technology brings a wealth of benefits: an increased spectral frequency means higher data rates while providing multiple, non-overlapping channels. Many users will find that OFDM is capable of performing near or non-line-of-sight (NLOS) links. This relaxes the stringent installation requirement associated with 2.4GHz equipment and improves RF link robustness. OFDM is also much more immune to multi-path problems and resistant to potential interference.

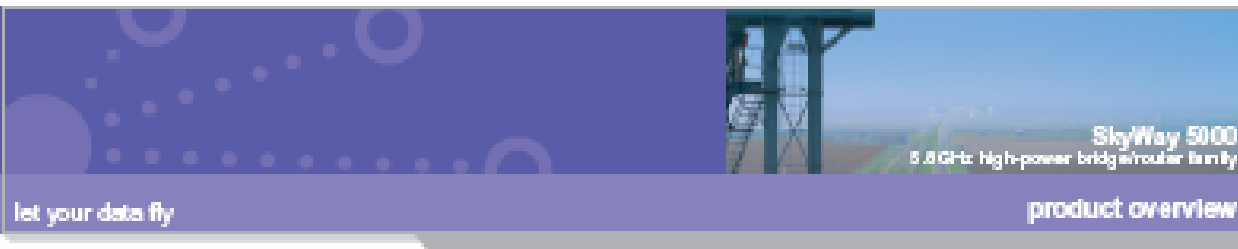
The SkyWay 5000 Series is fully integrated: digital baseband, radio and antenna are all combined into a single, weatherized outdoor chassis, complete with Power over Ethernet (PoE) support. This product can be installed at any convenient outdoor location without worrying about cabling difficulties. Inexpensive Ethernet CAT5 (up to 300 feet) is all that is required for connecting your indoor network switch.

With its 400mW output radio, the SkyWay 5000 Series will extend the 5.8GHz ranges to unprecedented distances, especially for multipoint networks. Even for shorter distances, the extra link margin gained from the higher power transmitter will maintain connections more reliably, even in RF congested areas.

The SkyWay 5000 comes with full function bridge/router software and extensive network protocol and network management support.

Higher data rates, installation simplicity, more RF power, immunity to common impairments, and an extensive bundle of software features combine in the SkyWay 5000 Series to provide a simple and prudent enhancement to your broadband wireless investment.

**SOLECTEK**  
WIRELESS NETWORKING SOLUTIONS



**SkyWay 5000 Series Specifications**

POINT TO POINT PERFORMANCE			
	SkyWay 5101	SkyWay 5301	SkyWay 5501
Link Distance*	5 Miles	12 Miles	20+ Miles
Radio Power	100 mW ( 20 dBm )	400 mW ( 28 dBm )	400 mW ( 28 dBm )
MULTIPOINT PERFORMANCE			
	SkyWay 5100	SkyWay 5300	SkyWay 5500
Link Distance*			
using sectoral base station (SkyWay 5600)	2.5 Miles	4.5 Miles	6 Miles
using omni base station (SkyWay 5700)	1.5 Miles	3 Miles	4 Miles
RADIO			
Data Rate	72 Mbps, 36 Mbps, 24Mbps, 12 Mbps, and 6Mbps		
Modulation	OFDM - BPSK, QPSK, 16QAM, 64QAM		
Media Access	CSMA/CA		
Frequency	5.500 - 5.700 & 5.725 - 5.850 GHz		
Power	Power-over-Ethernet, Indoor DC Injector Included (24V, 1.5A)		
NETWORKING			
Ethernet	10/100Base-T		
Protocol Support	Transparent MAC layer bridging, IP Static Routing, RIP, RIPv2, transparent VLAN (802.1q)		
Management	HTTP Web Server, SNMP v1,2, FTIR VLAN		
Security	Hardware Accelerated (wire-speed encryption with no throughput loss)		
Encryption	40, 128, 152-BIT AES & 40, 128-BIT WEP		
Authentication	MAC address-based access control		
MECHANICAL			
Configuration	Outdoor, Integrated Unit	Outdoor, Integrated Unit	Outdoor, Integrated Unit
Size	12" x 12" x 3"	12" x 12" x 3"	18" x 18" x 3.5"
Weight	20 lbs.	20 lbs.	20 lbs.
Pole Mount Adapter	2-Axis Adjustment, Accommodates 1-4" pole diameter		
Temperature	-20 to +60°C		
REGULATORY			
Radio Compliance	FCC CFR47, 15.247 Industria Canada RSS 210 China MIIT [2002] 277		

\* Note: 1. Typical performance for link distance for 50 Miles is for 200 Mbps link rate setting. Throughput for link distance only includes outdoor NLOS conditions.

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