
Valemount KXS30SG

1,000mW 2.4GHz Radio Module

The Most Powerful 2.4GHz mini-PCI Radio Available

The Valemount KXS30SG delivers performance you expect from a pioneer and leader in the wireless networking industry. Over 1,000mW of power*, enhanced receive sensitivity, complete Atheros XR and SuperG functionality, and unsurpassed performance. Totally firmware and platform agnostic.

Over twice the power.

Almost half the cost.

Absolutely the highest performance.

The KXS30SG will link farther than other radios, but more importantly it will create higher quality links. The full XR and SuperG functions in the KXS30SG are critical to establishing the highest performing wireless links. The radio is compatible with all operating systems which support the Atheros AR5414 chipset including StarOS, MadWifi, Mikrotik, Ikarus, and others.



* The KXS30SG is capable of delivering over 2 watts of power where regulatory domain appropriate.

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- Over 1,000mW Output Power
 - Enhanced Temperature Rating
 - Full Turbo Mode Operation
 - Enhanced Receive Sensitivity
 - Advanced RF Filtering and Blocking
 - Advanced Rate Control with Enhanced Error Correction
 - Optimized for minimum distortion at the highest output levels
 - Complete Atheros SuperG and XR Feature Set
 - 5/10/20/40 MHz Channels
 - MMCX **and** U.FL Antenna Connectors
 - Advanced Digital Signal Processing
 - Enhanced Compression and Fast Frames
 - Compatible with all operating systems and platforms supporting the AR5414 chipset
 - Full QoS support

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Technical Specifications

Chipset	Atheros AR5414 6th Generation, with XR and SuperG
Output Power	1,000mW / 30dBm; (Higher where regulatory domain allowed)
Frequency Range	2312 through 2737 MHz
Sensitivity	-93dBm +/- 1dB
Channel Width Support	5MHz; 10MHz; 20MHz; 40MHz
Data Rates (Mbps)	108, 96, 72, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1
Modulation Techniques	OFDM and DSSS OFDM: BPSK, QPSK, 16QAM, 64QAM DSSS: DBPSK, DQPSK, CCK
Supported Standards	802.11b/g; 802.11d; 802.11e; 802.11h; 802.11i; 802.11j
Security	64/128/152 bit WEP, TKIP, AES, IEEE 802.1X Auth.
Host Interface	32 bit mini-PCI type III (PCI Interface v2.3)
Operating Voltage	3.3 Volts DC
Power Consumption	1.50 A - typical
Dual Antenna Connectors	1 x MMCX and 1 x U.FL
Temperature Range	-30 to 85C
Humidity	5% to 95% (non-condensing)
Dimensions	59.4mm x 46mm
RoHS Compliance	Fully RoHS compliant

