

IEEE 802.11b PCMCIA WLAN Module

Zcomax Technologies, Inc. has released its new line of Air Runner™ wireless LAN adapters. The XI-325 series are IEEE 802.11b 11Mbps modules that has been designed for high performance, reliability and ease of implementation. The 2 integrated antenna connectors provide instant availability to add an external antenna or amplifier. The form factor allows quick and easy installation into either a PCMCIA or Cardbus host. The XI-325 series are all high performance modules that exceeds both IEEE 802.11b and FCC regulatory requirements.

The XI-325's design was selected to help reduce the overall costs associated with wireless modules by allowing a single unit to interface with multiple hardware platforms, thus eliminating the need for custom designs to fit existing product lines. The XI-325 series are robust plug and play ready devices that support Windows and Linux drivers.

With an excellent price / performance ratio and the field-proven reliability associated with the Conexant chipset, the XI-325 series is a superb choice for any wireless application requiring both quality and reliability.



XI-325 series at a glance

- IEEE 802.11b compliant
- 15-26 dBm Tx output Power
- -92 dBm @ 1Mbps Rx Sensitivity
- 2 Reverse Polarity MMCX connectors
- PCMCIA interface
- FCC and ROHS compliant
- Radio - Prism 2.5
- O/S Support – Windows and Linux



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Physical Specification:

Host Interface	16-bit PCMCIA V2.1 I/O, Type II, 5V key
Dimensions (L x W x H)	85.6mm(L) * 54mm(W) * 5mm (H)
Weight	≤ than 50 g

RF Specification:

Frequency Range (GHz)	North America: 2.412 ~ 2.462
	Japan TELEC: 2.412 ~ 2.484
	Europe ETSI: 2.412 ~ 2.472
	Spain: 2.457 ~ 2.462
	France: 2.452 ~ 2.472
Transmitter Output Power	15dB-26dB (Separate Models – not customer adjustable) (+/- 2dB)
Media Access Protocol	CSMA/CA w/ACK
802.11b Data rates	11, 5.5, 2, 1 Mbps
Modulation	CCK(11Mbps, 5.5Mbps) DQPSK(2Mbps) DBPSK(1Mbps)
Receiver Sensitivity @ PER < 8%	11Mbps : -85dBm(max) 5.5Mbps : -88dBm(max) 2Mbps : -89dBm(max) 1Mbps : -92dBm(max)

Electrical Specification:

Supply Voltage	5 Vdc, +/- 5%
Power consumption	TX: <700mA (100mW model) RX: <280mA (100mW model)

Antenna Connector Specification (supports Diversity)

Connector Type	Two MMCX reverse
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Environmental

Working Temperature	0 ~ 55°C, 5 ~ 80% relative humidity (non-condensing)
Storage Temperature	-20 ~ 70°C, 95% max relative humidity (non-condensing)

Memory

The XI-325s have one 128Kx16 SRAM and one 128Kx8 flash Rom

Security

The XI-325s support the following security features according to driver WEP, WPA-PSK TKIP

Reliability(MTBF)

Mean Time to Failure is rated at 538,224 hours.

Interoperability

Interoperable with Wi-Fi(WECA) certified products

Model Comparison

	XI-325	XI-325H	XI-325HP	XI-325HP2	XI-325HP3
Output Power					
+/-2dBm	15	20	23	24.8	26
Power Consumption					
Tx:	<600mA	<600mA	<650mA	<675mA	<750mA
Rx:	<250mA	<250mA	<280mA	<280mA	<280mA