

3.65GHz Mini PCI Wireless LAN Module

Zcomax Technologies, Inc. has released its latest line of Air Runner™ wireless LAN mini-PCI cards. One of those, the GZ-3650, is a 3.65GHz OFDM / DSSS mini PCI module based on 802.11 standards, operating in the 3.65-3.7GHz range. The GZ-3650 was designed to fit into any design using the standard mini PCI bus and includes an external antenna connector for added flexibility. The GZ-3650 is a high performance module that has bandwidth selectable flexibility allowing you to choose from 5MHz, 10MHz and 20MHz bandwidths.



The GZ-3650's reliable design is both cost effective and robust and is plug and play ready due to it's ability to operate with the widely available MADWiFi driver. Custom drivers are also available to suit your integration needs.

With an excellent price / performance ratio and the field-proven reliability associated with the Atheros chipset, the GZ-3650 is a superb choice for any wireless application requiring enhanced connectivity and reliability.

GZ-3650 mPCI Module

- 3.65GHz OFDM / DSSS Radio
- 22 dBm Tx Output Power
- 1 SMA Female Antenna Connector
- 32-bit Mini-PCI Interface
- FCC and ROHS Compliant
- Chipset – Atheros AR5414
- Bandwidth Adjustable 5/10/20MHz
- Operates With The Standard

MAD-WiFi Driver

GZ-3650 at a Glance

Radio	Atheros AR5414 Chipset
Output Power	22dBm @ 6Mbps
Frequency	3.65GHz – 3.70GHz

IEEE	Radio	RoHS	Interface
Based on: IEEE 802.11G	 ATHEROS® COMMUNICATIONS	 RoHS	 ETHERNET

GZ-3650 mPCI WLAN Module

Physical Specification:

Interface	32-bit Mini PCI
Dimensions (L x W x H)	65.93mm(L) * 59.6mm(W) * 4.15mm (H) <i>Dimension does not include antenna connector</i>
Weight	≤ 50 g

RF Specification:

Frequency Range (GHz)	Available – 3.65GHz ~ 3.7GHz
Transmitter Output Power	22dBm ± 1.5dBm @ 6-24Mbps
	21dBm ± 1.5dBm @ 36Mbps
	20dBm ± 1.5dBm @ 48Mbps
	19dBm ± 1.5dBm @ 54Mbps
Antenna Impedance	50 ohms
Channel Bandwidth	5MHz, 10MHz, 20MHz
802.11g Data rates	54, 48, 36, 24, 12, 9, 6 Mbps
Modulation	48/54 Mbps(QAM-64), 24/36Mbps(QAM-16) 12/18 Mbps (QPSK) , 6/9 Mbps (BPSK)
Receiver Sensitivity @ PER < 10% for 802.11g	54 Mbps: ≤ -70 dBm ± 2 dBm
	6 Mbps: ≤ -88 dBm ± 2 dBm

Electrical Specification:

Supply Voltage	3.3 Vdc, +/- 5%
Supply Voltage Ripple	120mV (pp) max.
Power consumption	TX: < 1100mA, RX: < 600mA,

Antenna Connector Specification

Connector Type	1 SMA Female connector
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Environmental

Working Temperature	-20 ~ 75°C, 5 ~ 95% R.H. (non-condensing)
Storage Temperature	-40 ~ 85°C, 5 ~ 95% R.H. (non-condensing)

Security

Policies Available	AES, TKIP, WEP, WPA
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Warranty

The GZ-3650 is supplied with a 12 month warranty against manufacturing defects.