

### IEEE 802.11b/g Wireless RS232 Serial Adapter

**Z**comax Technologies, Inc. has released its new Air Runner™ wireless RS232 Serial Adapter.

The RW-100 802.11g 54Mbps serial adapter has been designed with the integration, manufacturing and automation markets in mind. The RW-100 will fit into any design that has a serial interface and is designed to stand alone or be embedded into existing systems.

The RW-100 is a high performance module that exceeds both IEEE 802.11g and FCC regulatory requirements. With their experience in the module and integration business you can rest assured that their products can help reduce the difficulties associated with EMC and antenna issues during implementation.

The RW-100 module is a robust plug and play ready device that has support for Windows CE and Linux operating systems.

With an excellent price / performance ratio and the cost effective Atheros chipset, the RW-100 is a superb choice for any wireless application requiring enhanced connectivity and a small form factor.



### *RW-100 at a glance*

- 802.11g compliant
- 17 dBm Tx output power
- -93 dBm Rx sensitivity
- External antenna jack (SMA-RP)
- Serial to WLAN bridge
- FCC and ROHS compliant
- MAC / Baseband – Atheros
- WPA encryption security



**Physical Specification:**

Host Interface	RS232
Dimensions (L x W x H)	115mm(L) * 58mm(W) *34mm (H)

**RF Specification:**

Frequency Range (GHz)	North America:
802.11b/g	FCC: 2.412 ~ 2.462
	Europe ETSI: 2.412 ~ 2.472
	Japan 802.11b TELEC:2.412 ~ 2.484
	Japan 802.11g TELEC:2.412 ~ 2.472
Transmit power 802.11g	16dBm @ 54mbps data rate (max)
Transmit power 802.11b	17dBm @11mbps data rate (max)
Receiver Sensitivity @ PER < 10% for 802.11g	-74dBm @ 54Mbps data rate
	-90dBm @ 6Mbps data rate
Receiver Sensitivity @ PER < 8% for 802.11b	-87dBm @ 11Mbps data rate
	-93dBm @ 1Mbps data rate

**Hardware Specification:**

Host Interface	Interface	RS232
	Baud Rate	1,200bps ~ 921,000bps
	Parity Check	None / Odd / Even / Mark / Space
	Data length	7 / 8 Bit
	Stop bit	1 / 2
Memory	Stacked multi-chip package flash / SDRAM 2MB + 8MB	
Watchdog Functionality	Hardware watchdog reset	
LED's	Power, Wireless Link, Wireless Activity	

**Antenna Connector Specification**

Connector	Reverse polarity SMA female
Detachable	2dBi Dipole
On Board	2dBi Chip Antenna

**Electrical Specification:**

Supply Voltage	5 Vdc, +/- 5% (optional batter interface)
Power consumption	TX: <1500mA
Protection	Built-In 1.5KV magnetic isolation

**Environmental**

Working Temperature	-20 ~ 65°C, 95% RH (non-condensing)
Storage Temperature	-40 ~ 85°C, 95% RH (non-condensing)

**Features**

Protocols Configuration with telnet protocol	ICMP, IP, TCP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP.
Flow Control	None/ Software/ Hardware: RTS/CTS
Utility	Windows utility for Win 98/2000/xp/2003
Roaming	Mobile for fast roaming
Management	Telnet Console
	Web browser
	SMTP, SNTP
	Configuration information for both TCP/IP and serial ports are kept in the Flash Memory
Internal Buffer Size	TCP receiving buffer size = 8Kbytes
	TCP transmitting buffer size = 16Kbytes
	RS232 receiving buffer size = 4Kbytes
	RS232 transmitting buffer size =4Kbytes

**Security**

Security	WEP-64 / 128 bits
	WPA Compatible (TKIP / AES)

**Warranty**

12 Months limited warranty