

IEEE 802.11b/g CF Compact Flash Adapter

Zcomax Technologies, Inc. has released its new line of Air Runner™ wireless LAN Compact Flash adapters. The XG-801 is an IEEE 802.11b/g 54Mbps adapter that has been designed with the integration and vertical markets in mind. With a low profile and efficient u.FL antenna connectors, the XG-801 will fit into any design that has a compact flash host interface. The XG-801 is a high performance adapter that exceeds both IEEE 802.11g and FCC regulatory requirements.

The XG-801's design was selected to help reduce the overall costs associated with wireless compact flash modules by integrating a high-performance 2.4GHz radio, 802.11b/g baseband processor and MAC onto a single chip, opening up more opportunities for 54Mbps wireless deployment. The XG-801 adapter is a robust plug and play ready device that supports windows CE and Linux operating systems.

With an excellent price / performance ratio and the field-proven reliability associated with the Broadcom chipset, the XG-801 is a superb choice for any wireless application requiring both quality and reliability.

***XG-801 at a glance***

- IEEE 802.11b/g Compliant
- 17.5dBm Tx Output Power (802.11b)
- -82 dBm @ 6Mbps Rx Sensitivity
- 2 u.FL Antenna Connectors
- FCC and ROHS Compliant
- Low Power Consumption
- Chipset – Broadcom BCM4318E
- Driver support –CE/XP/Linux



Physical Specification:

Host Interface	Compact Flash
Dimensions (L x W x H)	56.5mm(L) * 43mm(W) * 3.5mm (H)
Weight	≤ than 10 g

RF Specification:

Frequency Range (GHz)	North America: 2.412 ~ 2.462
	Japan TELEC: 2.412 ~ 2.484 802.11b
	Japan TELEC: 2.412 ~ 2.472 802.11g
	Europe ETSI: 2.412 ~ 2.472
	Spain: 2.457 ~ 2.462
Transmitter Output Power	
IEEE 802.11b	17.5 dBm ± 1.5dBm
IEEE 802.11g	13.5 dBm ± 1.5dBm
Antenna	2 u.FL antenna connectors
Media Access Protocol	CSMA/CA w/ACK
802.11b Data rates	11, 5.5, 2, 1 Mbps
802.11g Data rates	54, 48, 36, 24, 12, 9, 6 Mbps
Modulation	48/54 Mbps (QAM-64) 24/36 Mbps (QAM-16) 12/18 Mbps (QPSK) 6/9 Mbps (BPSK)
Receiver Sensitivity	54 / 48 Mbps: -73dBm / -73dBm 36 / 24 Mbps: -74dBm / -74dBm 18 / 12 Mbps: -77dBm / -79dBm 9 / 6 Mbps: -81dBm / -82dBm 11 / 1 Mbps: -84dBm / -90dBm
@ PER < 10% for 802.11g	
@ PER < 8% for 802.11b	

Electrical Specification:

Supply Voltage	3.3 Vdc, +/- 5%
Power consumption	TX: <380mA RX: <360mA 802.11b
	TX: <360mA RX: <360mA 802.11g
Power Save mode current	<40 mA

Environmental

Working Temperature	0 ~ 60°C, 5-90% relative humidity
Storage Temperature	-20 ~ 80°C, 95% relative humidity
ROHS Compliant	Yes – Pb free

Security

The XG-801 supports the following security features according to the latest Broadcom driver

- WEP: 64/128bit (HEX/ASCII)
- WPA: WPA-PSK/TKIP/AES Security
- WPA2: PSK/AES/TKIP
- 802.1x: LEAP/EAP-TLS/EAP-PEAP
- CCx: LEAP/CCx V1.0

Reliability(MTBF)

Mean Time to Failure is rated at 150,000 hours.

Interoperability

The XG-801 interoperates with any IEEE 802.11g or 802.11b compliant devices.

Warranty

The XG-801 is warranted to up to 12 months against manufacturing defects.