

Caution

Changes or modifications not expressly approved by the party responsible for the compliance could void the user's authority to operate the equipment.

FCC Statements

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference received, including interference that may cause undesired operation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

This device is intended only for OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20cm is maintained between the antenna and users. For laptop installations, the antenna must be installed to ensure that the proper spacing is maintained in the event the users places the upper portion of the LCD panel only to ensure 20cm will be maintained if the user places the device in their lap for use), and
- 2) The transmitter module may not be co-located with any other transmitter or antenna. As long as the 2 condition above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE:

In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product . In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling:

This transmitter module is authorized only for use in device where the antenna may be installed such that 20cm may be maintained between the antenna and users(for example access points, routers, wireless ADSL modems, certain laptop configurations, and similar equipment). The final end product must be labeled in a visible area with the following:

Contains FCC ID:TK4-06-WLM54GP26

Manual information for End users

The end user must not have manual instructions to remove or install the device. The user manual for end user must include the following information in a prominent location.

IMPORTANT NOTE:

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter

WLM MINIPCI SERIES

WLM54G (G) – 26dBm (400mW)

WLM54G (SUPER-G) – 26dBm (400mW)

Compex WLM54G-26dBm miniPCI network adapter offers high output power of 400mW, extending the range of embedded devices much further. Combined with excellent receiver sensitivity, Compex WLM54G-26dBm is the miniPCI of choice for long distance links, or those where signal levels are reduced due to minor obstructions such as trees or buildings.

Built on Atheros chipset, Compex WLM54G-26dBm miniPCI network adapter can be used for all IEEE802.11b/g compatible WLAN. It is ideal for integration in a wide range of OEM devices.

Compex WLM54G-26dBm is also available in Super-G mode, which delivers better performance at higher throughput for your network connectivity.

- ◆ **High Output Power of up to 26dBm on both B and G band**
- ◆ **Available in G and Super-G modes**
- ◆ **Affordable and ideal for a variety of applications**

Features

- 2.4GHz IEEE 802.11 b/g standard
- Up to 108Mbps high-speed data rate (Super-G model)
- High Output Power of up to 26dBm at b/g Band
- Dynamic Frequency Selection (DFS)
- Wi-Fi Protected Access Client Support (WPA)
- Transmission Power Control (TPC)
- Multi-country Roaming Support (IEEE802.11d)
- Suitable for Embedded System or OEM project
- Available in Wireless-G, Super-G modes

Applications

- Infrastructure Networking
- Embedded system or OEM device



WLM MINI PCI TECHNICAL SPECIFICATIONS

MODEL	WLM54G-26dBm (G) (High Power)	WLM54G-26dBm (Super-G) (High Power)
CHIPSET	Atheros AR2413	Atheros AR2414
SPEED (max)	54Mbps	108Mbps
OUTPUT POWER		
802.11b	1-11Mbps	26dBm
	6-24Mbps	26dBm
802.11g	36Mbps	25dBm
	48Mbps	24dBm
	54Mbps	22dBm
POWER CONSUMPTION		
	5W	5W
STANDARDS		
IEEE 802.11b:	11Mbps, 5.5Mbps, 2Mbps, 1Mbps	
IEEE 802.11g:	54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, automatically fallback to 5.5Mbps, 2Mbps, 1Mbps	
Super-G:	108Mbps, 96Mbps, 72Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 6Mbps	
FREQUENCY RANGE		
IEEE 802.11b/g	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)	
NETWORK INTERFACE		
PCI interface v2.3 (Type III-B Mini PCI form factor)		
MODULATION TECHNIQUES		
OFDM and DSSS OFDM: BPSK, QPSK, 16 QAM, 64QAM DSSS: DBPSK, DQPSK, CCK		
RECEIVER SENSITIVITY		
802.11b	-92 dBm @ 1Mbps, -87 dBm @ 11Mbps	
802.11g	-90 dBm @ 6Mbps, -70 dBm @ 54Mbps	
OPERATING CHANNELS		
US and Canada	11 Channels	
Europe	13 Channels	
Japan	14 Channels	
SECURITY		
64/128 Bit WEP, WPA/WPA2, IEEE802.1X Authentication		
ENVIRONMENTAL SPECIFICATIONS		
Temperature	Operating -20°C to 70°C Storage -65°C to 100°C	
Humidity	Operating 5% to 95% (non-condensing)	
DIMENSIONS & WEIGHT		
Dimensions	59.75mm*44.60mm (L x B)	
Weight	55 grams	

Compex Systems Pte Ltd
135 Joo Seng Road,
#08-01
PM Industrial Building
Singapore 368363

tel: (65) 6288 8220
fax: (65) 6280-9947
www.compex.com.sg

Compex Inc, USA.
840 Columbia Street,
Suite B Brea. CA 92821

tel: (714) 482 0333
fax: (714) 482-0332
www.cpx.com

