

54 Mbps 802.11g Products

Alloy provides a family of wireless LAN products that combine the mobility and flexibility that users demand. For SME or SOHO applications Alloy's wireless LAN products will perform to your expectations with throughput up to 54Mbps.

Alloy's high speed wireless products operate in the 2.4GHz frequency range and are fully compliant to the IEEE 802.11g (54Mbps) standard, but are also compatible with the older 802.11b (11Mbps) standard to ensure complete wireless network connectivity.

Wireless LAN technology gives you the freedom to construct a network where physical cabling is not a viable option. It allows users to roam freely while continually connected to the network. Users are no longer bound to a particular desk, but can email, browse the internet, or run network applications from a wireless notebook or tablet PC anywhere in your office or home.

A 54Mbps PCI based wireless LAN adapter that brings the benefits of wireless technology to any standard PC system. Supports both Infrastructure mode (Access Point) and Ad-Hoc mode (Peer to Peer) with user friendly GUI tools that provide important status information, network information (Site Survey), and wireless signal strength & data rate meters. The WLT2454VP's supplied antenna can be removed to attach a higher gain antenna, if required.



- ✓ 32bit CardBus Interface

A 54Mbps cardbus (32bit) wireless LAN adapter designed to deliver maximum throughput from your notebook. It supports both Infrastructure mode (Access Point) and Ad-Hoc mode (Peer to Peer) and has user friendly GUI tools that provide important status information, network information (Site Survey), and wireless signal strength & data rate meters.

A 54Mbps USB adapter that can be used with either standard PC systems or with notebook systems. The Adapter is supplied with a 1 meter USB cable to enable you to physically locate the Wireless adapter in a position that will maximise the signal strength. This can be an important factor when installing a wireless network in cluttered office environments, where filing cabinets or the PC systems themselves can cause considerable interference for the wireless signal.



- ✓ NAT router
- ✓ DHCP support
- ✓ Integrated 4-port 10/100 Mbps switch
- ✓ Supports point to multipoint bridging
- ✓ WPA
- ✓ Telstra Cable Support



The WLT2454AP-S is the central device for your wireless network, providing connectivity to both the internet and also to any hardwired nodes. It combines a 54Mbps Wireless LAN Access Point, a NAT router and a 4 port switch. The AP supports WPA security with pre-shared key or lower security; WEP 64/128-Bit Encryption.

On-line brochures available for related products: <http://www.alloy.com.au/Resource.asp>

*Managed Switches *Converters *Network Adapters *Fibre Optic Networking and much more

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	PCI Adapter	USB Adapter	PCMCIA Card	Access Point
Interface	PCI	USB 2.0	Card Bus	WAN: 1 RJ-45 LAN: 4 RJ-45
Frequency Band	2400 ~ 2497 MHz ISM Band			
Standards	IEEE 802.11b 11Mbps & IEEE 802.11g 54Mbps			
Data Rates	54/48/36/24/22/18/12/11/9/6/5.5/2/1 Mbps per channel			
Modulation Schemes	CCK, DQPSK, DBPSK, OFDM	CCK, DQPSK, DBPSK, OFDM	DBPSK/DQPSK/CCK/OFDM	CCK, DQPSK, DBPSK, OFDM
Security	64/128 Bit WEP KEY	64/128 Bit WEP KEY	64/128/256 Bit WEP KEY	64/128 Bit WEP, WPA
Diagnostic LEDs	Link/Activity status	Link/Activity status	Link/Activity status	Link/Activity status (On all ports)
Transmit power	16 dBm @ 11Mbps 15 dBm @ 54 Mbps	16 dBm @ 11Mbps 15 dBm @ 54 Mbps	16 dBm @ 11Mbps 15 dBm @ 54 Mbps	13 dBm
Media Access Protocol	CSMA/CA with ACK			
Receive sensitivity	80 dBm @ 11 Mbps 67 dBm @ 54 Mbps	80 dBm @ 11 Mbps 67 dBm @ 54 Mbps	85 dBm @ 11 Mbps 72 dBm @ 54 Mbps	802.11b 6% PER* @1Mbps <-94dBm 6% PER* @2Mbps <-92dBm 6% PER* @5.5Mbps <-92dBm 6% PER* @11Mbps <-82dBm 802.11g 6% PER* @6Mbps <-90dBm 6% PER* @12Mbps <-85dBm 6% PER* @24Mbps <-82dBm 6% PER* @36Mbps <-78dBm 6% PER* @48Mbps <-75dBm 6% PER* @54Mbps <-73dBm
Antenna	2 dBi dipole adjustable removable antenna	Integrated Chip antenna	Integrated	2 dBi dipole adjustable removable antenna
Power Consumption	Tx peak 650mA @ 3.3VDC Rx peak 480mA @ 3.3VDC	520mA @ 5V (max)	Tx peak 650mA @ 3.3VDC Rx peak 480mA @ 3.3VDC	1.5 A @ 4.7V-5.3V
Certifications	C-Tick, CE, FCC class B, VCCI			
OS compatibility	Windows 98SE/ME/2000/XP			ALL
Temperature	Operation : 0° C ~ 40° C Storage : -25° C ~ 70° C	Operation : 0° C ~ 60° C Storage : -20° C ~ 65° C	Operation : 0° C ~ 40° C Storage : -20° C ~ 70° C	Operation : -10° C ~ 50° C
Free Space range (approx)	100 Meters	100 Meters	100 Meters	300 Meters
Humidity	10 ~ 95% RH No condensation			
Dimensions	133x121x21.6 (LxWxH)	117x47x25 mm (LxWxH)	100x54x5mm (LxWxH)	141x100x27 mm (LxWxH)
Number of Channels	13 (Europe standard)			

*PER = Packet Error Rate