

Mini-PCI Realtek/ VIA/ Ralink Wireless LAN Module

The IEI Networking wireless Mini-PCI cards are fully compliant with IEEE's security and 802.11b/g or 802.11 a/b/g standards. With data rates between wireless devices of up to 54Mbps, it can deliver the bandwidth necessary for real-time streaming for many applications. Supports Windows®, Linux and CE Operating Systems.


WMV-01

Mini-PCI VIA Wireless LAN Module


WMR-01

Mini-PCI Realtek Wireless LAN Module


WMRA-01

Mini-PCI Ralink Wireless LAN Module

Tri-Band

Model Name	WMV-01	WMR-01	WMRA-01
Standards	IEEE 802.11 b/g	IEEE 802.11 b/g	IEEE 802.11 a/b/g
Interface	Mini-PCI	Mini-PCI interface 1.0	Mini-PCI Interface 1.0
Controller Chip	VIA VT6655	Realtek RTL8165L	Ralink RT2561ST
Connectors	2 x U.FL (I-PEX) Antenna connectors	2 x Diversity U.FL Compaible Coaxial Connector	Diversity Coaxial Connector
Security	Supports WPA and WPA 2.0; Built-in hardware security engine for 802.11i 4.0. WEP (128-bit, 64-bit), TKIP, AES CCMP	Hardware-Based Encryption/Decryption Using 64-, 128-bit Wired-Equivalent Privacy (WEP) Keys, WPA and WPA2 are also supported	Hardware-Based Encryption/Decryption Using WEP 64/128, WPA, WPA2, 802.1 and 802.11i
Frequency Range	2.4 ~ 2.497 GHz (for US, Canada, Europe, Japan)	2.412 GHz ~ 2.484 GHz (for US, Canada, Europe, Japan)	2.412 GHz ~ 2.4835 GHz 5.15 GHz ~ 5.724 GHz 5.725 GHz ~ 5.825 GHz
Modulation Type	QPSK, BPSK, CCK, OFDM	PBCC, CCK, DQPSK, DBPSK	802.11b: CCK, DQPSK, DBPSK 802.11a/g: QAM64, QAM16, QPSK, BPSK
Supported OS	Windows® 98/NT/2000/XP Windows® CE 4.2/5.0 Linux 2.4.x / 2.6.x	Windows® 98/NT/2000/XP Windows® CE 4.2/5.0 Linux 2.4.x / 2.6.x	Windows® 98/ME/2000/XP Windows® CE 5.0 Linux 2.4.x/2.6.x, MAC OSX
Receiver Sensitivity	802.11b (8% PER) -84 dBm(max.) at 11Mbps 802.11g (8% PER) -71 dBm(max.) at 54Mbps	802.11b (in 8% PER) -80 dBm(max.) at 11Mbps 802.11g (in 10% PER) -70 dBm(max.) at 54Mbps (-65dBm in average)	802.11a: -65 dBm at 54Mbps 802.11b: -80 dBm at 11Mbps 802.11g: -65 dBm at 54Mbps
Power Consumption	802.11b: 250 mA@3.3V 802.11g: 230 mA@3.3V	802.11b: 340 mA@3.3V 802.11g: 330 mA@3.3V	802.11a: 389 mA@3.3V 802.11b: 375 mA@3.3V 802.11g: 325 mA@3.3V
Temperature	Operating: 0 ~ 50°C	Operating: 0 ~ 50°C	Operating: 0 ~ 60°C
Humidity	Operating: 0% ~70% non-condensing	Operating: 0% ~90% non-condensing	Operating: 0% ~90% non-condensing
Dimensions	64.7mm x 44.6mm	59.75 mm x 44.6 mm	59.6mm x 44.6mm
Weight	NW: 10 g	NW: 9.7 g	NW: 12 g
Complaint Certifications	Wi-Fi, FCC	FCC, CE	FCC Part 15.247 in US EN300328 and EN300826 (EN301489-17) in Europe


WMUSB-V01-R10

USB embedded module with VIA wireless LAN module

Features

1. IEEE 802.11b DSSS / IEEE 802.11g OFDM high rate compatible
2. USB embedded module
3. Supports RF On/Off mechanism
4. Supports an external or internal LED indicator
5. WEA/WAP support


WMPCIE-V01-R10

PCIe mini card wireless LAN module

Features

1. PCIe mini card form factor
2. High speed wireless connection to 54Mbps
3. Solid design with external antenna diversity
4. Low power consumption and high performance
5. Enhanced wireless security

Standards	IEEE 802.11 b/g	IEEE 802.11 b/g , Wi-Fi compliant
Interface	USB 1.1/2.0 interface	PCIe mini card
Controller Chip	VIA VT6656	Atheros
Connectors	2 x U.FL (I-PEX) Antenna connectors	2 x U.FL (I-PEX) Antenna connectors
Security	Supports WEP, WPA 1.0/2.0	WEP 64-bit and 128-bit encryption, WPA (Wi-Fi Protected Access), WPA2 (Wi-Fi Protected Access)
Frequency Range	2.4 ~ 2.5GHz	2.4GHz ISM Bands 2.412-2.472GHz, 2.484GHz
Modulation Type	802.11b : DQPSK, DBPSK, DSSS and CCK 802.11g : BPSK, QPSK, 16QAM, 64QAM, OFDM	802.11b : CCK, DQPSK, PSK 802.11g : OFDM
Supported OS	Windows® 98SE/ME/2000/XP	Windows® 2003 server/ XP/XP64/Vista 32/Vista 64
Receiver Sensitivity	802.11b (8% PER) -83 dBm(Typical) at 11Mbps 802.11g (10% PER) -68 dBm(Typical) at 54Mbps	802.11b: -76 dBm(Typical) at 11Mbps 802.11g: -68 dBm(Typical) at 54Mbps
Power Consumption	382 mA@ 5V Tx mode/High speed 305 mA@ 5V Rx mode/High speed	802.11b: TX : MAX 710 mA@ 3.3V , MIN 630mA at 3.3V RX : MAX 330 mA@ 3.3V , MIN 310mA at 3.3V 802.11g: TX : MAX 650 mA@ 3.3V , MIN 620mA at 3.3V RX : MAX 340 mA@ 3.3V , MIN 320mA at 3.3V
Temperature	operation: 0°C ~ 60°C	operation: 0 ~ +60°C
Humidity	operation: 10% ~90% non-condensing	operation: 15% ~95% non-condensing
Dimension	60 mm x 25 mm	51 mm x 30 mm
Weight	NW: 8 g	NW: 18 g
Compliance Certifications	FCC, CE	FCC, CE

Ordering Information

Part No.	Description	Part No.	Description
WMR-01-R10	802.11 b+g Wireless Mini-PCI module with Realtek RTL8185L	32500-000500-RS	2 dBi 109mm Antenna
WMV-01-R10	802.11 b+g Wireless Mini-PCI module with VIA VT6655	32500-001000-RS	5 dBi 173mm Antenna
WMRA-01-R10	802.11 a+b+g Wireless Mini-PCI module with Ralink RT2561ST	32100-143900-RS	RF CABLE ;300MM;28AWG;(A)SMA CONNECTOR ;(B)MHF20278-11R-13;ROHS
WMPCIE-V01-R10	802.11 b+g PCIe mini card wireless LAN module with Atheros	32000-105000-RS	USB cable, 2x4-pin 2.54mm to JST SHR-06V 1.0mm, L:20cm
WMUSB-V01-R10	802.11 b+g USB embedded module with VIA VT6656	32000-102500-RS	USB Cable, 2x4pin 2.0mm to JST SHR-06V 1.00mm, L:150mm

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