

Wireless LAN Module



EMB-WIFI-KIT

PCIe Mini card wireless LAN module kit

Features

- Half size PCIe Mini card form factor
- High speed wireless connection up to 433.3Mbps transmit/receive PHY rate using 80MHz bandwidth
- Low power consumption and high performance
- Fully qualified Bluetooth 4.0
- Solid design with external antenna diversity

Ordering Information

| Part No. | Description |
|--------------------|---|
| EMB-WIFI-KIT01-R20 | 1T1R wifi module kit for embedded system, IEEE802.11a/b/g/n/ac WiFi with Bluetooth 4.0/3.0+HS, 1 x wifi module, 2 x 250mm RF cable, 2 x Antenna, RoHS |
| EMB-WIFI-KIT11-R20 | 1T1R wifi module kit for embedded system, IEEE802.11a/b/g/n/ac WiFi with Bluetooth 4.0/3.0+HS, 1 x wifi module, 2 x 400mm RF cable, 2 x Antenna, RoHS |



WMPCIE-V02-R10

PCIe Mini card wireless LAN module

Features

- PCIe Mini card form factor
- High speed wireless connection up to 433.3Mbps transmit/receive PHY rate using 80 MHz bandwidth
- Solid design with external antenna diversity
- Low power consumption and high performance
- Enhanced wireless security
- Fully qualified Bluetooth 4.0 and 3.0 + High speed system

Ordering Information

| Part No. | Description |
|---------------------|---|
| WMPCIE-V02-R10 | IEEE802.11a/b/g/n/ac wireless with Bluetooth 4.0/3.0 + HS PCIe Mini module with Realtek RTL8821AE, RoHS |
| 32501-001000-200-RS | RF cable; 300MM; 28AWG; (A) SMA connector (B) MHF20278-11R-13; RoHS |
| 32505-000100-100-RS | 2 dBi 109mm antenna |

Specifications

| Model Name | EMB-WIFI-KIT New |
|---------------------|---|
| Standard | IEEE 802.11a/b/g/n/ac, Wi-Fi compliant / Bluetooth4.0 Standard |
| Major chipset | Realtek RTL8821AE |
| Antenna | 2x standard U.FL Connector |
| Frequency range | Wi-Fi: 2.4 GHz, BT: 2402MHz~2483MHz |
| Modulation | Wi-Fi: 802.11a/g/n/ac: OFDM 802.11b: CCK(11, 5.5Mbps), DQPSK(2Mbps), BPSK(1Mbps) |
| Receive Sensitivity | Wi-Fi: 802.11a: less than -65 dBm (54M) 802.11b: less than -76 dBm (11M) 802.11g: less than -65 dBm (54M) 802.11n @2.4GHz: less than -64 dBm (HT20 MCS7) 802.11n @2.4GHz: less than -61 dBm (HT40 MCS7) 802.11n @5GHz: less than -64 dBm (HT20 MCS7) 802.11n @5GHz: less than -61 dBm (HT40 MCS7) 802.11ac @5GHz: less than -51 dBm (VHT80 MCS9) BT: BER < 0.1% (Anritsu 8852B Tx -70 dBm) |
| Driver support | Windows 7/8, Linux kernel 3.18 |
| Temperature | 00~700C |
| Dimensions | 29.85mm x 26.65mm x 1.5 mm |
| Weight | NW: 3.28g |

Specifications

| Model Name | WMPCIE-V02-R10 |
|---------------------------|--|
| Standards | IEEE 802.11a/b/g/n/ac Wi-Fi with Bluetooth 4.0/3.0 + HS (Wi-Fi:PCI-E, BT:USB) |
| Interface | PCIe Mini card |
| Connectors | 2XU.FL(I-PEX) antenna connectors |
| Controller Chip | Realtek RTL8821AE |
| Frequency Range | Wi-Fi: 2.4/5GHz, BT: 2402 MHz~2483 MHz |
| Modulation Type | Wi-Fi: 802.11a/g/n/ac: OFDM 802.11b: CCK, DQPSK, BPSK BT: Header GFSK Payload 2M: 4-DQPSK Payload 3M: 8DPSK |
| Supported OS | Windows 7/8/10 |
| Receiver Sensitivity | Wi-Fi: 802.11a: less than -65 dBm (54M) 802.11b: less than -76 dBm (11M) 802.11g: less than -65 dBm (54M) 802.11n@2.4GHz: less than -64 dBm (HT20 MCS7) 802.11n@5GHz: less than -64 dBm (HT20 MCS7) 802.11ac@5GHz: less than -51 dBm (VHT80 MCS9) BT: BER < 0.1% (Anritsu 8852B Tx -70 dBm) |
| Temperature | Operating: 0°C ~ 70°C Storage: -40°C ~ 85°C |
| Humidity | 5% ~ 95%, non-condensing |
| Dimensions | 29.85mm x 26.65mm |
| Weight | NW: 3.28g |
| Compliance Certifications | FCC, CE |