802.11n Wireless USB 2.0 Adapter
EMP-9701

The EMP-9701feature-rich mini-PCI embodies 2 transmitter 3 receiver(2T3R) achitecture to ensure reliable, cost-effective wireless connectivity at high throughput over an extended range.Optimized RF architecture and baseband algorithms provide superb performance with low-power consumption. Intelligent MAC design deploys a highly efficient DMA engine and hardware data processing accelerators without overloading the host procesor. It supports standards-based security, quality of service and international regulatory, giving end users the greatest performance anytime, anywhere.

Specifications

Features:
- Up to 300Mbps wireless data transfer rate
- Up to 12X Faster & 4X Farther than 802.11g
- Supports 2T3R Radios
- Enable Superior Reception from Farther Distances
- Backward Compatible with 802.11g and 802.11b Networks

Network:
- **Data Rates:**
  1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, 72, 84, 150 and 300Mbps (with 2-stream on both ends)
- **Standards / Compliance:**
  IEEE802.3, IEEE802.3u, IEEE802.11b, IEEE802.11g, 802.11n 2.0
- **Security**
  WPA/WPA2 (AES, 64,128-WEP with shared-key authentication)
  Cisco CCS V1.0, V2.0 and V3.0compliant
- **Regulation Certifications:**
  FCC Part 15, ETSI 300/328/CE
- **Operating Voltage:**
  3.3V ± 0.15V
- **Drivers:**
  Windows 2000/XP/Vista

Physical Specifications:
- **Form Factor:**
  Mini-PCI type III A
- **Dimensions:**
  59.60mm X 50.9mm
- **Operating Voltage:**
  5 V ± 0.25V
- **Current consumption**
  Tx : 695mA @ 2T (max.)
  Rx : 407mA @ MCS 15, 40MHz

Environmental:
- **Temperature Range:**
  Operating: -20ºC to 70ºC
  Storage: -30ºC to 80ºC
- **Humidity (non-condensing):**
  5%~95% Typical

Radio:
- **Frequency Band:**
  802.11b/g:
  U.S., Europe and Japan product covering 2.4 to 2.484 GHz
- **Media Access Protocol:**
  Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- **Modulation Technology:**
  802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  802.11b: DSSS (DBPSK, DQPSK, CCK)
- **Operation Channels:**
  11 for North America
- **Receive Sensitivity (Typical):**
  2.412~2.472G(IEEE802.11b) (1Rx)
   -93dBm @ 1Mbps
   -91dBm @ 11Mbps
  2.412~2.472G(IEEE802.11g) (2Rx)
   -92dBm @ 6Mbps
   -79dBm @ 54Mbps
  2.412~2.472G(IEEE802.11N) (2Rx)
   -90 dBm MCS 8
   -70 dBm MCS 15
- **Available Transmit Power *subject to country regulations*:**
  2.412~2.472G(IEEE802.11b)
   19dBm @1~11Mbps
  2.412~2.472G(IEEE802.11g)
   19 dBm @6Mbps
   16 dBm @54Mbps
  2.412~2.472G(IEEE802.11N)
   20 dBm MCS 8
   16 dBm MCS 15
- **Antenna Configuration**
  2 U.FL antenna connectors (IPEX)

- **Related Products**
  EUB-9701EXT (802.11n USB 2T2R)
  EUB-9702 (802.11n USB 1T2R)
  ESR-9710 (802.11n Gigabit Router)

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