

## CTX720\_V.1 WLAN Mini Card

### Product Specification

**Description:**

The CTX720\_V.1 WLAN Mini Card is a low profile highly integrated cost-effective Wireless LAN USB 2.0 network interface controller that integrates a USB 2.0 PHY, SIE (Serial Interface Engine), 8051 MCU, a Wireless LAN MAC, and a Direct Sequence Spread Spectrum/OFDM base band processor onto one chip.

**Main Chips:**

RTL 8225 WLAN RF Transceiver,  
RTL 8187B-GR Network Interface Controller

**Features:**

- Complies with IEEE802.11a/b/g standards
- Integrated Wireless LAN MAC and Direct Sequence Spread Spectrum/OFDM Base band Processor in one chip
- Processing Gain compliant with FCC
- Supports both transmit and receive Antenna Diversity
- Data rates of 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps
- IEEE 802.11g protection mechanisms for both RTS/CTS and CTS-to-self
- DSSS with DBPSK and DQPSK, CCK modulations and demodulations supported with long and short preamble
- OFDM with BPSK, QPSK, 16QAM and 64QAM modulations coding rate of 1/2, 2/2, and 3/4
- Fast receiver Automatic Gain Control (AGC) & antenna diversity functions
- Complies with WMM, 802.11e, and CCX specifications
- Complies with 802.11h, 802.11i, 802.22j specification
- Hardware based IEEE 802.11i encryption/decryption engine, including 64-bit/128-bit WEP, TKIP and AES
- Supports WPA and WPA2 security
- Advanced power saving mode when the LAN and wake-up function are not used

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**Ratings:**

+3.3V  $\approx$  400mA

**PCB Dimension:**

30.3 mm x 50.9 mm

**System Requirements:**

- Pentium IV 2.0 MHz, Pentium M 1.7 Ghz or higher
- 512 MB RAM
- Free Mini Card slot