

**Radicom Research, Inc.**

671 E. Brokaw Road | San Jose, CA 95112

Tel: 408-383-9006 | Fax: 408-383-9007

[www.radi.com](http://www.radi.com)**Serial/USB to Ethernet Adapter Board – TinyLAN2 Series****RJ45/Serial/USB Interface**

Radicom TinyLAN2 Serial/USB to Ethernet Family is brand new Ethernet to Serial Port or Ethernet to USB solution to the market. With built-in powerful CPU to process all necessary functions and features, TinyLAN2 series family is perfect for less powerful embedded system in order to integrate Ethernet from Serial Port or USB port into a single platform. The networking capability provides many functions, such as TCP/IP, SLIP, ICMP, ARP, DHCP client, DNS, FTP client, POP3, SMTP, Telnet server and UDP and powerful security features.

TinyLAN2 series offers various solutions for an Ethernet to Serial or USB interface. It provides TTL I/O or RS232 for various serial interfaces and standard USB 2.0 interface. The TinyLAN2 is the smallest module USB or TTL interface adapter in the world. The TinyLAN2 is complete module type with TTL or USB with RJ45 pin headers. For other powerful series with analog SIA alarm option, please refer to LSDB-8300 series.

The onboard Ethernet functions are designed to meet the widely adopted **IEEE Std. 802.3™** with automation and buffering. The integrated serial port includes standard serial terminal features such as flow control, character length and a DTE speed of 230Kbps. The TinyLAN2 series includes Flash memory can do firmware updating with the latest enhancements for customized applications.

**Models:** (TinyLAN2 series only supports 3.3V)

- TinyLAN2S : LAN-to-Serial Module with DIP pins for Ethernet and Serial port interface
- TinyLAN2-UD : LAN to USB device Module with DIP pins for Ethernet and USB device interface
- TinyLAN2-UH : LAN to USB device Module with DIP pins for Ethernet and USB host interface
- TinyLAN2-MB: MB board with through hole (DIP) pins for TinyLAN2 module
- TinyLAN2 EVK: TinyLAN2+ TinyLAN2-MB + accessories

**Application:**

- Ethernet Serial adapter
- Ethernet USB host adapter
- Ethernet USB device adapter
- Remote connectivity
- Remote monitoring and control
- Test and measurement equipment
- Network gateway adapter



TinyLAN2



TinyLAN2-MB



TinyLAN2 EVK

**Ethernet Features:**

- Designed to meet **IEEE Std. 802.3™**
- Supports IEEE 802.3az energy efficient Ethernet ability for 100Base-TX in full duplex operation and 10Base-T in full/half duplex mode
- Supports Green Ethernet
- Cable length power saving
- Link down Power saving
- Supports TCP/IP over SLIP.
- Ethernet port auto-crossover function.
- Complete USB or Serial-to- Ethernet solution with network processor, MAC (media access controller) and PHY interface.
- Multiple IP Address Configuration Modes: DHCP / Static IP mode
- Supports TCP/IP, ICMP, ARP, DHCP client, DNS, FTP client, POP3, SMTP, Telnet server and UDP protocols
- 10/100Mbps Ethernet
- AT command or Web-based configuration
- LED I/O to reflect Ethernet connection and link activity
- RoHS 3 compliant

**Serial Port/USB Features:**

- High speed (921.6Kbps) UART (with modem control)
- Baud rates: 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600.
- Data Bits: 5, 6, 7, 8 ~ Stop Bits: 1, 1.5 or 2
- Hardware (RTS/CTS) flow control
- Remotely access serial port via Internet application
- 640/576 bytes Transmit/Receive FIFO buffer
- USB 2.0 compatible