



- > data
- > voice
- > video

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## LR2000 Series

### 1 Mbps LongRun (HR) Ethernet Adapters



#### *The LR2000 Series Adapters*

The LR2000TL is a high-speed network access device that shares the same pair of copper wires that is used to provide POTS (Plain Old Telephone Service) service to deliver high-speed Internet and Intranet access. With the LR2000TL, voice and data operate simultaneously over the same pair of wires eliminating the costs associated with multiple phone lines or different wiring infrastructures to handle data and voice services.

The LR2000 series adapters utilize Tut's LongRun technology to deliver 1 Mbps point-to-point connectivity at distances up to 2000 ft. The LR2000TL connects to Tut's LongRun line card (ACLC-LR) located in the Expresso MDU 2000 Access Concentrator or to the Expresso MDU Lite Access Concentrator.

The LR2000TL is easy to install and use. Simply connect any device with a 10Base-T port – PC, IP Telephone, TV Web browser, etc. – to the 10Base-T port on the LR2000TL and plug the LR2000TL into your existing telephone jack. LEDs on the front of the unit provide connection, activity status and assistance with troubleshooting.

#### **Features & Benefits**

##### **Operates on Existing Copper Phone Wires**

- Plug-and-Play
- No need to re-wire
- Provides connection indicator between LR2000TL and another Ethernet device

##### **Data Over POTS (Plain Old Telephone Service)**

- Voice and data run simultaneously on the same pair of wires
- Does not interfere with phone service

##### **High-Speed Internet and Intranet Access**

- Every RJ-11 jack is internet ready
- Share high-speed Internet/Intranet access devices such as V.90, DSL, cable, or wireless modems
- Use in conjunction with Tut's Access Concentrators for Internet access within hotels, dorms, or apartments

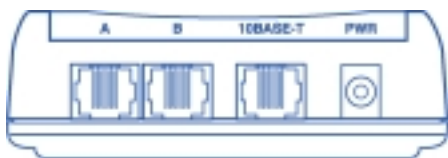
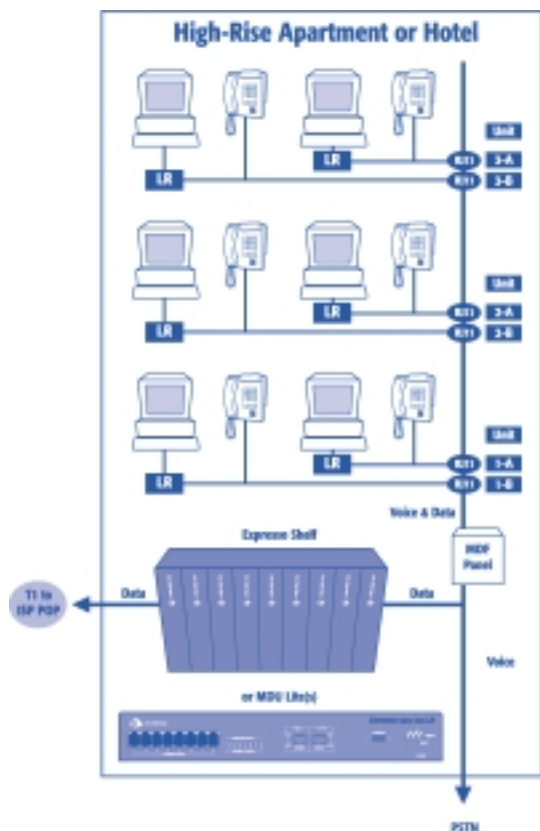
##### **1 Mbps Ethernet Residential LAN**

- Supports today's home networking applications – peripheral sharing, file sharing, application sharing, and multi-player games
- Connects any PC equipped with Ethernet to a LongRun network through RJ-11
- Share high-speed Internet access throughout the house or office

##### **Ethernet**

- Standard, well tested, interoperable





**Specifications**

- Network Interface:** 1 Mbps LongRun  
10Base-T Ethernet IEEE 802.3 Industry standard for a 10 Mbps base-band CSMA/CD local area network
- Data Rates:** LongRun: 1 Mbps & 0.5 Mbps\*  
10Base-T: 10 Mbps
- Connectors:** RJ-11: POTS (Plain Old Telephone Service) For connecting the LR2000T to the RJ-11 modular phone jack line  
RJ-11: POTS For connecting the telephone to the LR2000TL adapter  
RJ-45: IEEE 802.3 10Base-T For connecting the LR2000TL to a 10Base-T device
- Cables:** LongRun: Standard home telephone cables of any type and gauge including quad, flat, twisted  
10Base-T: CAT 3 or better UTP
- Distance:** LongRun: up to 2000' on a single pair of 24AWG wire  
Ethernet: up to 300' between the two farthest nodes on the LAN
- Power Consumption:** 2.25 Watts
- Operating Voltage to External Power Supply:**  
LR2000TL: 115 VAC nominal 60 Hz  
LR2000TL-I: 230 VAC 50/60 Hz  
LR1000TL-J: 100 VAC 50/60 Hz
- Environmental:** Ambient temperature: 0°C - 40°C  
Relative humidity: 5-90% non-condensing  
Altitude: -200 ft. to +10,000 ft.
- Compliance:** FCC Part 15 Class B  
FCC Part 68  
CE  
UL 1950  
CSA

**Product Matrix**

Model	Speed	Geography
LR2000TL	1.0 Mbps	North America
LR2000TL-I	1.0 Mbps	International (except Japan)
LR2000TL-J	1.0 Mbps	Japan

**About Tut Systems, Inc.**

Tut Systems (NASDAQ: TUTS) is the leading provider of solutions that deliver reliable broadband services within multi-tenant buildings (MTUs) such as hotels, apartments, student housing and multi-tenant commercial properties. In partnership with service providers and real estate investment trusts, Tut's solutions have been deployed in hotel, commercial and residential properties worldwide.

More information on Tut and its products, including international availability, can be found at <http://www.tutsystems.com>, or by contacting Tut's US headquarters in Pleasanton, California, at +1-925-460-3900 or 800-998-4888. Investor queries should be directed to 800-486-1241.

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