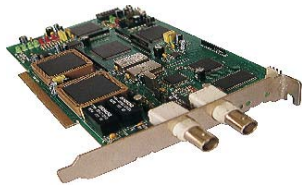


# E1-USB-LS



## Digital-Trunk Logging-System

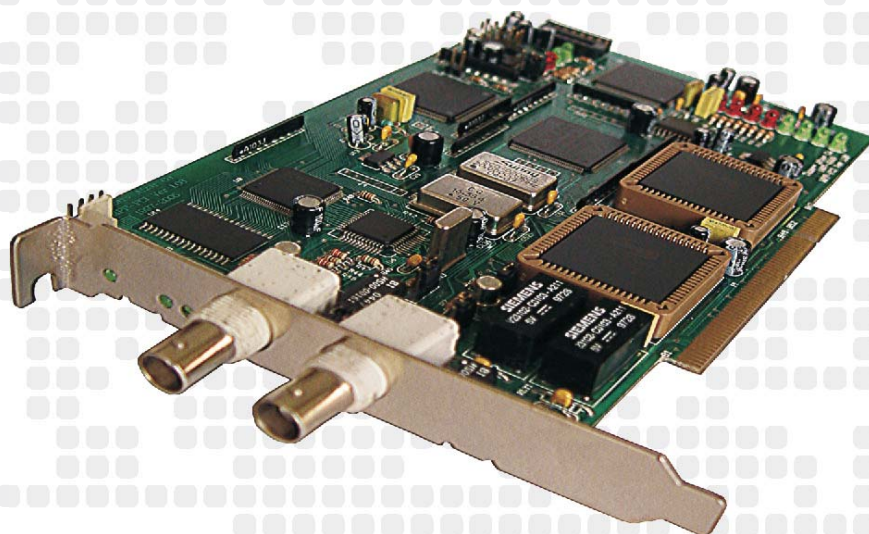
**E1-USB-LS** is a multi-protocol digital-trunk logger card, using DSP technology, and USB interface to a controller server PC, to record signaling and bearer channel contents of a both-way E1 trunk, with no loading effects. Supported link protocols are: ISDN-PRI, CAS-3bit and MFC-R2.

## Features

- Supports ITU-T ISDN-PRI, MFC-R2 and CAS-3bit signaling
- Configurable for E1, T1 or J1 trunk
- Power Supplied by PCI slot and controlled by USB interface
- Uses DSP technology to implement first 3 layers of OSI model
- Modular hardware and downloadable firmware
- Powerful call-progress analysis and monitoring
- Comprehensive system and fault alarms
- Meets relative ITU-T, ETSI and IEEE standards

## Key Benefits

- Future-proof PC-downloadable firmware
- Maximum robustness and flexibility of firmware and software to adapt with country-specific regulation and special (non-standard) customization



## Technical Specifications

### Configuration

The E1-USB-LS provides two receive line interface for direct and high impedance connection to a digital E1, T1 or J1 link.

Assuming master (network) and slave (user) sides for a point-to-point link, the first line of E1-USB-LS receives network side, and the second one receives user side.

Both side's signaling are processed by card and resulting equivalent events are transferred to logging server PC, through USB port, as well as all bearer (voice) channels.

### Input Ports

Two (BNC type) non-loading shunts from network and user ways of a link.

### Output Ports

None

### EC (External) Interfaces

- USB 1.1 for connecting to recording server
- PCI/X-PCI slot section to get power supply

### Functions (both ways)

- Physical link status monitoring: Total-Synchronization, Alarms, CRC-4, ...
- Signaling and call progress tracking
- Data link status monitoring (PRI only)
- Layer-3 interaction monitoring (PRI only)
- On-line real-time voice record
- Built-in functional and diagnostic self tests
- User defined parameters setting (standard and customized)

### Typical Applications

- Public safety
- Whole sale trading
- Contact centers (call centers)

### Standards & Certifications

Conforming to the following ITU-T and ETSI recommendations:

I.431, Q.921, Q.931

G.703, G704, G706, G732, G775, G796, G823, G946, G965

ETS 300 011, ETS 300 233, ETS 300 166, ETS 300 324, ETS 300 347

### Electrical

Power Requirements: PCI Slot Supply: 5 V dc  
Input impedance (both ways): Infinite

### Physical

Card Dimensions : 193(H) 114 (W) mm

### Environmental

- Temperature:  
Operating: 0 °C to +40 °C  
Storage : -20 °C to +60 °C
- Relative Humidity (non-condensing):  
Operating: 20 % to 80 %  
Storage: 5 % to 80 %

### Panels, Connectors & Accessories

USB cable for internal connection to PC  
Two Female BNC connectors  
Power-LED and Link-Status LED (blinks when both ways are good)

### Software

Following soft wares (by Tazarv Afzar Co.) are applicable:

- Customer Relation Management (CRM)
- HCLS3000 (High Capacity Logging System)

### Ordering Information

E1-USB-LS

