LINK ELECTRONICS, INC.

IP CAPTION PROCESSOR
MODEL LEI-592

FEATURES

- Audio and Data transmission
- Caption Over Internet
- Eliminate Phone Line
- USB or Serial input
- Multiple baud rates
- Master / Slave connect detect
- Data send-receive detect
- Volume control
- Encoder May be HD or SD
- Audio Detect

The LEI-592 enables SD or HD closed caption encoder, using serial communications, to connect to the source of the serial data via the Internet. An audio transceiver allows the removal of the traditional 2 phone line setup, without having to buy a new, Internet capable, encoder. The concept consists of a master unit at the encoder and a slave unit at the serial data entry device. When these units are connected, through the Internet, any serial data input to the serial port of one unit, will be output from the serial port of the other, and any audio input to the audio jack of the master unit will be output from the audio jack of the slave.

Both units have a user selectable serial/USB port, with selectable baud rates of 1200, 2400, and 9600, and either 8-N-1 or 7-O-1 type serial data, a standard 3.5 stereo headphone jack with volume control, and an Ethernet port for a broadband connection. The audio input is sampled at 10 KHz and sent by UDP. UDP is a connectionless protocol that allows transmission of audio with no drop outs. Latency of the audio is less than 200ms plus the latency of the internet. The serial and audio data is sent through a serial tunnel connecting the two units. Encryption and password security can be setup via a web browser.

After startup, the audio LED will blink amber to indicate a connection between the master and slave units, stay amber to indicate audio detected with low volume, and stay green to indicate good audio is detected. The data LED will blink green when sending serial data to the Internet and blink amber when receiving. The master has an input volume control, and the slave has an output volume control.

The address of the master device must be programmed into the slave device, through the serial port. Once connected, the address is stored in flash and will not have to be entered again. This allows any slave unit to connect to any master unit. If the internet connection is broken both units will reset and try to reconnect. The master unit must be connected to a gateway router, with that router's port forwarding enabled. If the router does not have a static IP, then a dynamic DNS service will have to be setup. The slave unit can normally be connected to a cable or DSL modem, using a router, with minimal setup.

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MODEL LEI-592
SPECIFICATIONS

REAR PANEL CONNECTIONS

Ethernet: ..... RJ-45 Connection
Stereo Audio ..... Mini 3.5 mm Male Connector
USB: ..... Connects to PC or Serial Device
RS-232: ..... Connects to PC
AC Connector: ..... Standard AC connector, 115 to 225 VAC

FRONT PANEL CONTROLS:

Power On/Off: ..... AC Power On or Off
Fuse: ..... 250 mA Rating
Audio: ..... Detection of Input Audio
Data: ..... Caption Data Presence
Rate: ..... Baud Rate; A=1200, B=2400, C=9600
Parity: ..... 7 Odd or 8 None
Vol: ..... Audio Volume Level Control
Communication: ..... USB or RS-232

ENVIRONMENTAL:

Temperature: ..... 0° to 50°C Ambient
Humidity: ..... 10% to 90% non-condensing
Power: ..... 4.2 Watts

MECHANICAL:

Height: ..... 1.75 Inch
Width: ..... 5.5 Inch
Depth: ..... 9.25 Inch
Weight: ..... 2.5 Pounds

Master Unit:

Required at caption encoder location

Slave Unit:

Required at captioning location

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