

Universal Line Interface for any Digital Recorder

High Speed Recording Interface for Optical or Electrical Serial Streams

Digital Recorder Interface



FEATURES:

- LVDS or differential ECL parallel system interface
- Simultaneous RECORD/PLAYBACK operation
- Configurable 8 or 16 bit parallel interface plus parity
- Source selectable playback clock
- Web enabled 10/100 BaseT Ethernet and RS232 craft port user interfaces
- Rate adaptation for legacy equipment such as SONY DIR-1000
- Other PDH line rates available such as E1, T1, E3, T3 and E4
- Multiplexer module available to interface several low rate inputs to one recording channel
- Analog input available

DESCRIPTION:

The **Digital Recorder Interface** Module interfaces STM-1/OC-3 fiber optic (P/N 701308) or STS-1/E4 (P/N 701308-1) equipment to digital recording devices. The module provides clock and data recovery from the high speed serial input and de-serializes the data stream for parallel interface to digital recorders, up to 16 bits wide plus parity. Playback is handled through the same module and can be performed simultaneously from the same or a second recorder. User control is implemented through two interfaces, a RS232 craft port and 10/100 BaseT Ethernet port. Communication setup, such as IP address and other fundamentals are handled through terminal interface via the RS232 communication port. Operation is carried out via Ethernet to the embedded webserve. Front panel indicators include indicators for basic functions such as LINE, LOCK, RECORD, PLAY and PARITY ERROR. Basic RECORD and PLAY as well as LED brightness can also be controlled from the front panel. Line interface is compliant with ITU-T G.703, G.825, G.958, Telcordia TR-NWT-00253 and ANSI T1.105.03-1994, T1.105.05-1994 & T1.102-1993.

Other interfaces are available for low rate PDH and Analog I/O



Portable, laptop size

Module fits Technisys 701180-1D Chassis, a portable, laptop sized chassis, capable of accepting two modules, providing various signal interface and conversion functions.

Power: -48VDC, suitable for use in a telco CO.

Operates independent of CO power using a 48VDC desktop power supply or Technisys 701219 Battery/Charger Unit (also a laptop size device).

All with rack adapting flanges for mounting in standard 19 inch equipment rack.

Don't reinvent it. Call Technisys for your electronic development needs.

1-800-305-9001

www.tsys-inc.com

Digital Recorder Interface**Physical Characteristics:**

Height: PCB 4.5" (11.4 cm) (3U)

Front panel height: 5.25" (13.3 cm) (3U)

Width: 1.6" (4.1 cm)

Depth: 13.13" (33.35 cm) includes rear panel connectors (.63") and front panel handle (1.00")

Weight: 13.1 oz. (1.8 kg) approximate

Electrical:

External interconnection:

CLOCK OUT: BNC connector (Qty 1)

Parallel DATA, CLOCK and other Recorder interface (ECL/LVDS):

(2) Sub-mini 25 pin Female or 50 pin VHDI

Inputs termination: 50 Ohm for ECL (100 Ohm differential) /100 Ohm LVDS

Outputs can be near end terminated at 50 Ohm for ECL (100 Ohms differential)

Backplane interconnect:

10 position (2x5) 2mm grid connector rated at 3 amps per pin

+5 volt: 4 pins

-5 volt: 2 pins

Ground: 4 pins + guide

Power requirements:

+5 volt: 1 Amps max.

-5 volt: 2 Amps max.

