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SCSI Bus Converter

Single-Ended to/from Differential Model SED-608/616

SCSI Bus devices use either Single-Ended or Differential interfaces, which cannot be mixed directly on the same bus. ANCOT's SED converters allow inter-connection of the two interfaces; by using ANCOT's SED converters, a SCSI Host Bus Adapters with Single-Ended (or Differential) interface can communicate with a mix of peripherals - some with Single-Ended, and some with Differential interfaces. The operation of the SED converter is bidirectional.

The SED converters can also be used as SCSI Bus extenders. The SCSI specification recommends a maximum length to be 6 meters or 25 meters, for the Single-Ended or Differential interface respectively. All signals on Ancot's SED converters are received and subsequently regenerated, thus allowing extension of the maximum length. With two SED converters connected back-to-back, the length of the Single-Ended SCSI Bus cable can be extended by another 25 meters (Differential branch), plus 6 meters (the second Single-Ended branch) to a total of 37 meters (6 + 25 + 6 meters).

FEATURE HIGHLIGHTS:

- Allow interconnection of Single-Ended & Differential SCSI Busses
- All signals are bidirectional, and can be driven from either the Single-Ended or Differential side
- Automatic operation, no programming or setup required
- Synchronous or Asynchronous Transfer, SCSI-1 or SCSI-2
- Operation at all industry supported speeds, including SCSI-2 FAST (10 MHz)
- SCSI-2 WIDE (2 bytes) supported by the SED converter, Model SED-616
- Support for arbitration, parity, disconnect/reconnect, and mix of SCSI Targets and Initiators on either side.
- SCSI bus termination built-in: Single-Ended side has an active terminator, Differential side has a standard resistor terminator type, both enabled by a DIP switch.
- TERMPWR to SCSI connectors (enabled by DIP switch) fused by circuit breaker
- Compact configuration, available as PCB only, or packaged in an enclosure
- Uses external +5 Volt Power Source for 110/220 Volt

SWITCHING CHARACTERISTICS:

- Serial delay: less than 30 nanoseconds
- Single-Ended receivers/drivers: 74LS14 / 74F38 (48mA)
- Differential receivers/drivers: NS3695 (RS485 compatible)

ORDERING & CONFIGURATION INFORMATION

SED-608SC

8-bit (Narrow) SE to Diff converter board for SCSI-1 or SCSI-2 FAST with two 50 pin Centronics type SCSI connectors.

Dimensions: 3.95"(W) x 5.550"(L) x .50"(H)

SED-608SH

Same as the above, except with two 50 pin high density SCSI connectors

SED-608S

Same as the above, except with two 50 pin male header SCSI connectors

SED-608SC/EPx

SED-608SC in a metal enclosure, with external power supply for 110/220 Volt

Dimensions: 4.550"(W) x 5.940"(L) x 1.160"(H)

SED-616SH

16-bit (WIDE) SE to Diff Converter board for SCSI-2 FAST & WIDE (2 bytes) with two 68 pin high density 'P' type connectors

. Dimensions: 3.95"(W) x 5.550"(L) x .50"(H)

SED616SH/EPx

SED-616SH in a metal enclosure with external power supply for 110/220 Volt

Dimensions: 3.95"(W) x 5.940"(L) x 1.160"(H)

PWA-5VRx

100-240V autoranging 5 Volt/2 Amp regulated external power supply, UL & TUV approved.

Specify x = U for US AC power cord or x = E for European AC power cord.

SED-616/16R

sixteen SED-616 SCSI-2 FAST & WIDE SE-Diff converter boards, with two 68 pin HD connectors each, mounted in a 19" rack enclosure 5.25" high, with power supply and cooling.

Custom packaging is available. Inquire with the factory.



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