

# 16TE3

Sixteen-channel interface for E3/T3



## Description

The 16TE3 is a mezzanine board that pairs with an EDT main board (for PCI or PCI Express) for high-speed data transfer. It supports sixteen T3 or E3 interfaces and processes large amounts of communications serial data for complex, user-defined applications.

EDT provides standard FPGA configuration files, and custom configuration files can be requested.

The main board supplies high-speed DMA, plus additional memory and programmable FPGA resources.

## Applications

Communications monitoring  
(serial data)

Signal generation (T3 or E3)

## Features

Mezzanine board – pairs with an EDT main board (in a PCI, PCI-X, or PCIe slot), which adds high-speed DMA, programmable FPGA resources, and memory

E3/T3: Sixteen channels (full duplex line interfaces)

## Specifications

<b>Product Type</b>	16TE3 is a 16-channel mezzanine board for E3/T3; it requires a main board.	
<b>FPGAs and Memory</b>	Programmable FPGA and memory resources are provided by the main board.	
<b>Data Rates</b>	Data rates are dependent on data format and main board.	
<b>Data Format (I/O)</b>	<p>Transformer coupled</p> <p>Compliance (waveforms)</p> <p>Compliance (jitter tolerance)</p> <p>Independent I/Os</p> <p>MB/s</p> <p>Encoding/decoding</p> <p>Jitter attenuation</p>	<p><b>E3/T3</b></p> <p>Yes</p> <p>G.703</p> <p>ANSI T1.102-1993, Telcordia GR-499-CORE, and G.823</p> <p>16 (each bidirectional)</p> <p>75-Ω coaxial cable over 1100 feet at speeds up to 51.84 MB/s</p> <p>B3ZS or HDB3</p> <p>Select on transmit or receive</p>
<b>Connectors</b>	One 62-pin AMP (mate to AMP 748367-1)	
<b>Cabling</b>	Consult EDT for purchase options.	
<b>Physical</b>	<p>Weight</p> <p>Dimensions</p>	<p>3.7 oz. typical</p> <p>6.6 x 4.2 x 0.5 in. (with a main board)</p>
<b>Environmental</b>	<p>Temperature</p> <p>Humidity</p>	<p>Operating 0° to 40° C</p> <p>Non-operating -40° to 70° C</p> <p>Operating 1% to 90%, non-condensing at 40° C</p> <p>Non-operating 95%, non-condensing at 45° C</p>
<b>System and Software</b>	For details on system requirements and EDT-provided software driver packages, see specifications for your EDT main board.	

## Support

EDT offers engineer-to-engineer customer support, from phone consultation to custom design of hardware, firmware, and software. Contact us for options and details.

## Contact

**Engineering Design Team (EDT), Inc.**  
 1100 NW Compton Drive, Suite 306  
 Beaverton, Oregon 97006  
 800-435-4320 / 503-690-1234 (phone)  
 503-690-1243 (fax)  
[www.edt.com](http://www.edt.com) / [info@edt.com](mailto:info@edt.com)

## Ordering Options

- Main board: PCI SS / PCI GS / PCIe8 LX

For more options, see main board datasheet.