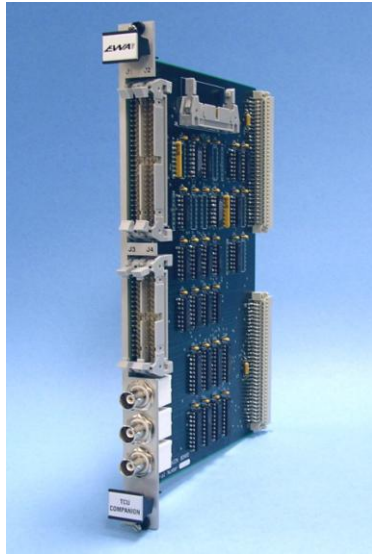


# Differential Companion Board



## Features

- Provides System-level Differential I/O access to VME P2 Connector
- 64 Differential Signals on Front Panel (16 configurable Between Input and Output)
- 3-50ohm BNC Outputs on Front Panel
- 6U x 160 mm VME Module
- 64 Front Panel TTL Signals Monitor all P2 Row A and C Signals, whether used as input or output
- 24 Total Differential I/O Configurable as Input or Output
- 200mA @ 5V DC

## General Description

The Differential Companion Board translates the TTL I/O from the P2 connector to RS422-level differential I/O. The differential I/O provides noise immunity for real-time control, as well as drive capability for long cable runs.

## Ordering Information

Part number: 9816519 1x-2x-3x-4x-5x-6x

For the 24 signals that are selectable between input and output, set each "x" representing a signal group of 4 differential signals to a T or an R for Transmit or Receive as desired for the application according to chart below:

Signal Group	Connector	Pins	VME P2 pins
1	J1	33 - 40	A17 - A20
2	J1	41 - 48	A21 - A24
3	J2	83 - 90	C9 - C12
4	J2	91 - 98	C13 - C16
5	J8	9 - 16	C21 - C24
6	J8	16 - 24	C25 - C28

For example: "Part number: 9816519 1T-2R-3T-4T-5T-6R" would set signal groups 1, 3, 4 and 5 to transmit, and 2 and 6 to receive via the Jxx connector, where transmit uses drivers on the board and receive uses receivers on the board.