



## PMC NTDS Serial D/E Adapter Assembly

### Specifications

#### NTDS Serial Interface

MIL-STD-1397C Type D/E  
Software Selected

#### Form Factor

Standard Single PCI Short Format  
(6.875" X 4.2")

#### Bus Interface

IEEE 1386.1-2002 Standard for common mezzanine card family

#### Power Requirements

+5VDC @1.4A

#### NTDS I/O connectors

##### Front Panel

Type E—BJ-77 or BJ157 Connector  
Type D—BNC 75 Ohm Connector

##### Rear Panel (P4)

P4 I/O per ANSI/VITA-35-2001

#### Temperature Standard

0°C to 55°C

#### Extended Temperature

-40°C to 85°C

#### Configuration Options

##### Bus Interface Options

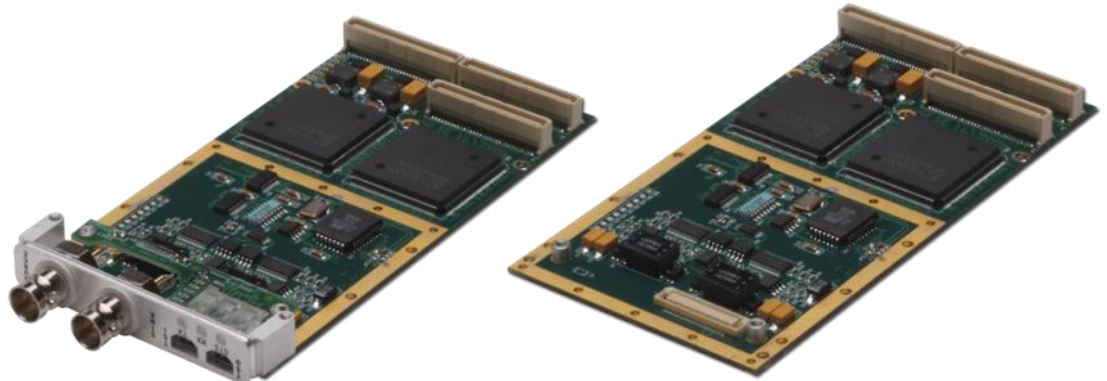
cPCI Carrier  
PCI Carrier  
PCIe Carrier

##### NTDS I/O Mezzanine Options

BJ77 for Type E- 262  
31-10-75 for Type D- 263  
Rear I/O only- RP

**GET Engineering** is proud to present its MIL-STD-1397 Serial NTDS Interface Adapter fully compliant to the ANSI/VITA-20-2001 Conduction Cooled PMC Standard. This adapter provides an ultra-reliable fully compliant MIL-STD-1397, Revision C Interface with the option of full Dual-TAP capability in a single card! All configuration parameters are accessible through a simple software user interface with FPGA-controlled DMA channels for transmit and receive buffers to reduce host CPU overhead

**GET Engineering's** NTDS Serial card is available in either commercial or extended temperature range with an option for either Commercial Front Panel BJ-77, BJ-157 (50 Ohm) or BNC (75 Ohm) or Rear (P4) I/O. This card is supplied with a full featured driver API which is operating system independent enabling easy migration from one OS to another, for example Windows to Linux



**PN 10075101-S-262-C**  
NTDS I/O –BJ77 For Type E

**PN 10075101-S-RP-C**  
NTDS I/O –Rear (P4) I/O

## PMC NTDS Serial D/E Adapter Assembly



### Environmental Specifications

#### Operating Temperature Range

0°C to 55°C Operating  
(MIL-STD-810, Method 510 and 502, Procedure II)

#### Industrial Temperature Range Option

Minus 40° to 85°C Operating  
(ANSI-VITA 47, Class CC4)

#### Storage Temperature

Minus 40° to 85°C Operating  
(MIL-STD-810 Method 510 and 502, Procedure I)

#### Vibration

0.01g<sup>2</sup>/Hz 15-2 KHz, Optional 0.1g<sup>2</sup>/HZ 15-2KHz, (MIL-STD-810, Method 514, Procedure I)

#### Operating Shock

20 g peak, Optional 40 g Peak,  
(MILSTD-810, Method 516, Procedure I)

#### Mean Time Between Failures (MTBF)

> 200K Hours per MIL-HDBK-217, Rev E, 25°C Ground Environment

### Key Hardware Features:

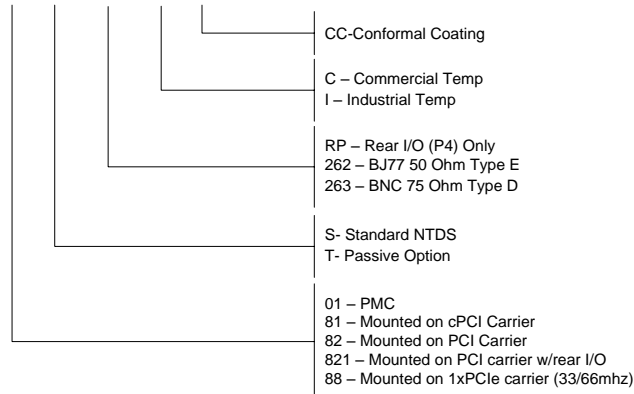
- ANSI/VITA 20-2001 compliant PMC Module
- LEDs to monitor interface activity and status
- Full passive Dual-Tap Mode
- Command and inter-word time-outs
- Single Word Transfer (SWT) and Burst mode support
- Dynamic LLS and Type D impedance termination
- Front or Rear Panel I/O (P4) configuration available
- Independent NTDS Sink and Source channels
- Supports independent DMA and PIO transactions

### Key Software Features:

- Common API across multiple operating systems
- Memory Mapped address space
- Independent FPGA-controlled DMA channels
- Extensive built-in test capabilities
- Sample code provided to enable rapid Application Code Development

### Ordering Information:

100751XX-X-XXX-X-XX



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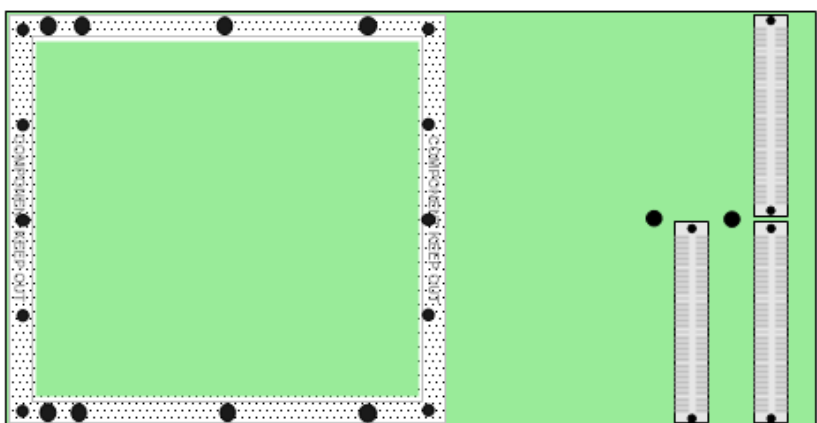
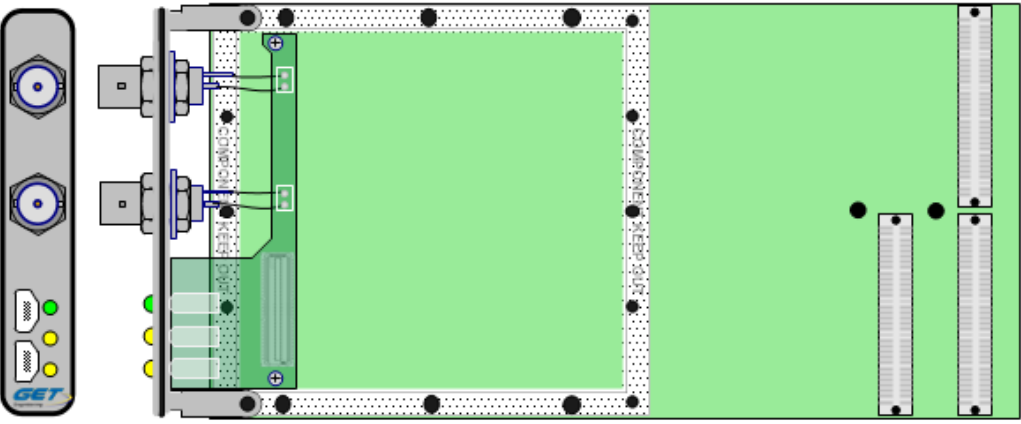
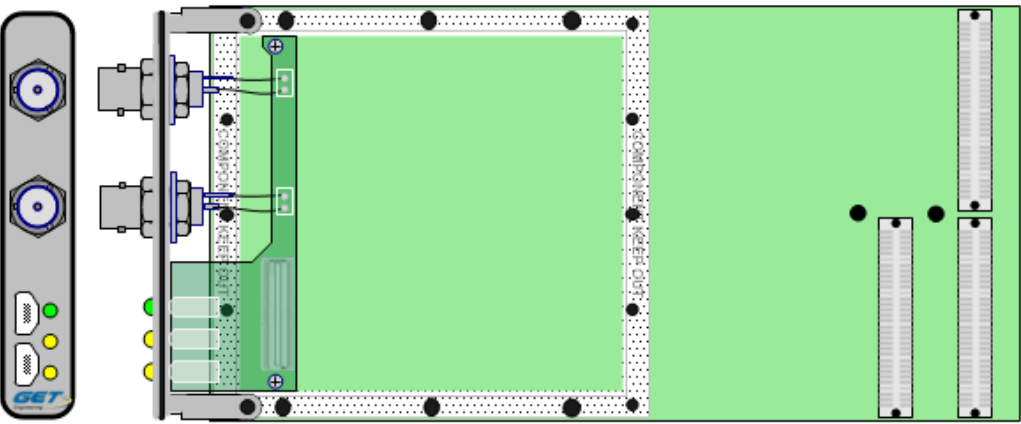
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10075501-S-262-C  
BJ77 50 Ohm NTDS Type E

10075501-S-263-C  
BNC 75 Ohm NTDS Type D

10075501-S-RP-C  
P4 Rear I/O



PROPRIETARY AND CONFIDENTIAL



**GET Engineering Corp**  
100751 NTDS Serial PMC Card  
Interconnect Options

DRAWN: DAVID SHAW  
DATE: 9/18/2012

1:1 1 OF 2

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A

B

C

D

A

B

C

D