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Ruggedized Conduction Cooled NTDS PMC Serial

Specifications

GET #
10075101

NTDS Serial Interface
MIL-STD-1397C Type D/E
Software Selected

Form Factor

Front I/O Standard Single CCPMC Card Module (74 mm x 144 mm)

Rear I/O Standard Single CCPMC Card Module (74 mm X 144 mm)

Bus Interface
IEEE 1386.1-2002 Standard for common mezzanine card family

Power Requirements
+5VDC @ 750mA
+3.3VDC @ 750mA

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 operating system 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

9350 Bond Avenue • El Cajon, CA 92021 • Tel: 619.443.8295 • Fax: 619.443.8613 • www.getntds.com

Ruggedized Conduction Cooled NTDS PMC Serial



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
0.01g²/Hz 15-2 KHz, Optional 0.1g²/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)

Humidity
5% to 95% humidity operational (non-condensing)
(MIL-STD-810, Method 507)

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/0 (P4) configuration available
- Independent NTDS Sink and Source channels
- Supports independent DMA and PIO transactions

Key Software Features

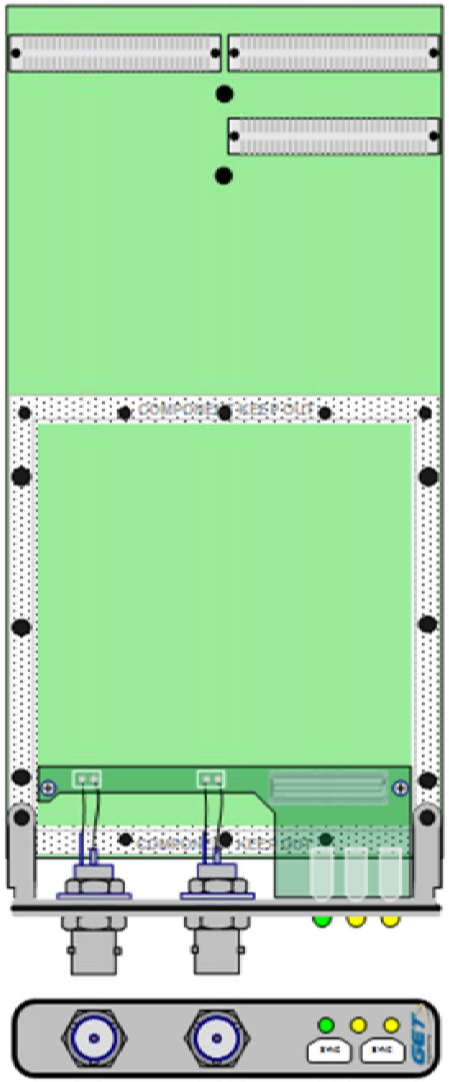
- Common API across multiple operating systems
- Memory Mapped address space
- Independent FPGA-controlled DMA channels
- Extensive built-in test capabilities
- Sample code provided to enable rapid Application Code Development

100751XX-X-XXX-X-XX

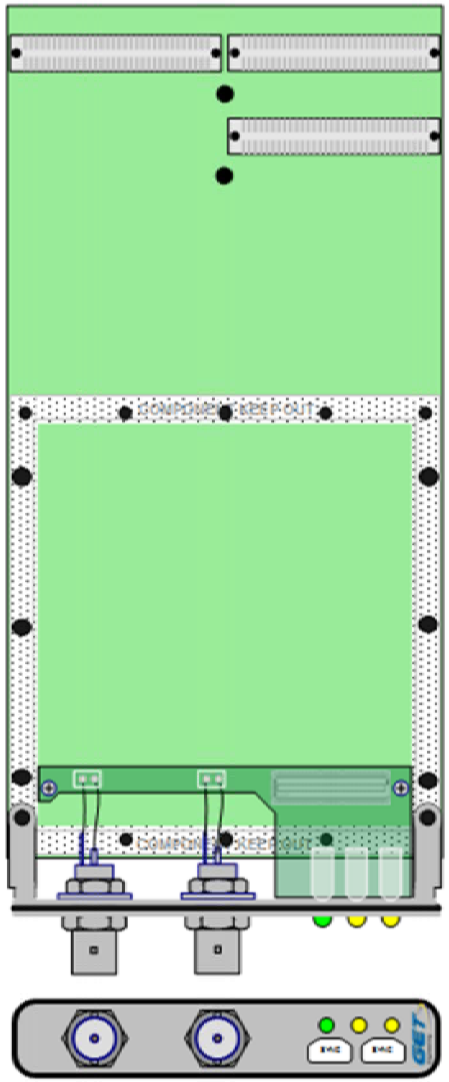
- CC-Conformal Coating
- C – Commercial Temp
  I – Industrial Temp
- RP – Rear I/O (P4) Only
  262 – BJ77 50 Ohm Type E
  263 – BNC 75 Ohm Type D
- S- Standard NTDS
  T- Passive Option
- 01 – PMC
  81 – Mounted on cPCI Carrier
  82 – Mounted on PCI Carrier
  821 – Mounted on PCI carrier w/rear I/O
  88 – Mounted on 1xPCIe carrier (33/66mhz)
  91R – R811 carrier, 240 PIM & PIM RTM

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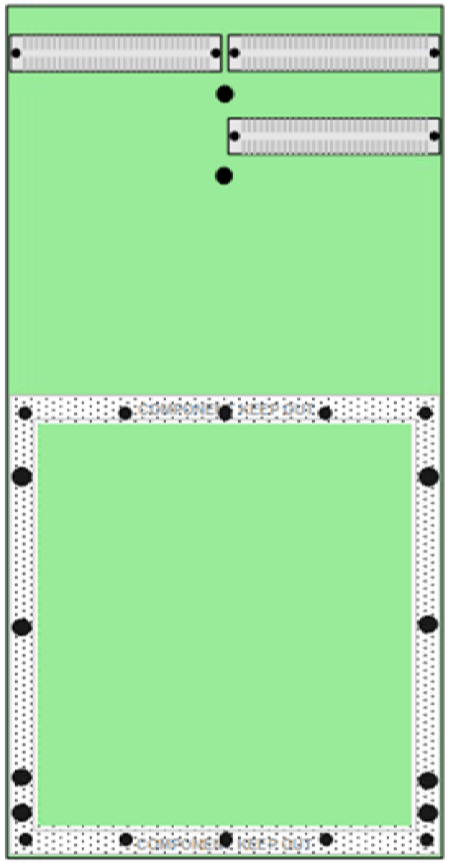
10075101-S-262-C
BJ77 50 Ohm NTDS Type E



10075101-S-263-C
BNC 75 Ohm NTDS Type D



10075101-S-RP-C
P4 Rear I/O



PROPRIETARY AND CONFIDENTIAL

GET Engineering Corp

100751 NTDS Serial PMC Card
Interconnect Options

DRAWN: DAVID SHAW

DATE: 6/10/2015

SCALE 1 : 1

SHEET 1 OF 2

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