Feature Set

General
- 3U VPX
  - VITA 46.4 VPX / PCIe
  - VITA 48 VPX-REDI
  - VITA 65 OpenVPX
- PCI Express x1, x2, x4 or x8
  - VITA 46.4
  - Jumper setting for x8 or x4
  - Auto-negotiation for x2 or x1
- XMC Site with Rear I/O
  - VITA 46.9
  - VITA 42.3
  - IEEE 1386.1
- I²C Bus (SMBus®) Management
- I²C Bus Temperature Monitor
- 1.0” Pitch with VPX-REDI standard
- .80” air cooled and .85” conduction cooled Pitch available

Power:
- 5V @ 200 mA, 3.3V @ 200 mA (Max)
- 2 Watts (Max) without PMC/XMC

Specifications - Conduction Cooled
- Conformal Coat: Optional
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -55°C to +105°C
- Humidity: 0 to 95% RH Non-Condensing
- Shock: 40g Peak
  Sawtooth @ 11 mSec
- Vibration (Random): 1g/Hz, 15Hz to 2KHz
- Vibration (Sine): 10g Peak, 15Hz to 2KHz

Conduction Cooled TIOC-300X module with 1.0” VPX-REDI covers shown

TIOC-300X is a 3U VPX XMC/PMC Carrier Module. The TIOC-300X features on-board storage via I²C of configuration parameters, BIOS and mirroring data. The module includes an XMC/PMC site accessible via PCIe.

TIOC-300X Features:
- 3U VPX Conduction Cooled
  - VITA 46.4 VPX + PCIe
  - VITA 48 VPX-REDI
  - VITA 65 OpenVPX
- PCIe 1.0a - x1, x2, x4 & x8
  - VITA 46.4
- XMC/PMC site with rear I/O
  - VITA 46.9
  - VITA 42.3
  - IEEE-1386.1
- I²C bus for Chassis Management functions
**Compliance Specifications:**

- The TIOC-300X XMC/PMC Carrier Module is designed to meet CE Emissions specification EN 55022, CE Immunity specification EN 50082-2 and FCC 47 CFR, Part 15, Class A when tested in a shielded enclosure.

**Standard Configuration Ordering Information:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Level</th>
<th>Pitch</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Cooled</td>
<td>1</td>
<td>0.8&quot;</td>
<td>TIOC-300X1-000</td>
</tr>
<tr>
<td>Conduction Cooled</td>
<td>5</td>
<td>1.0&quot;</td>
<td>TIOC-300X5-101</td>
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</tbody>
</table>

Consult factory to order other configurations

**TIOC-300X Block Diagram**

![TIOC-300X Block Diagram](image)

VITA 46.9 Signal Mapping
100 Ohms Differential Impedance