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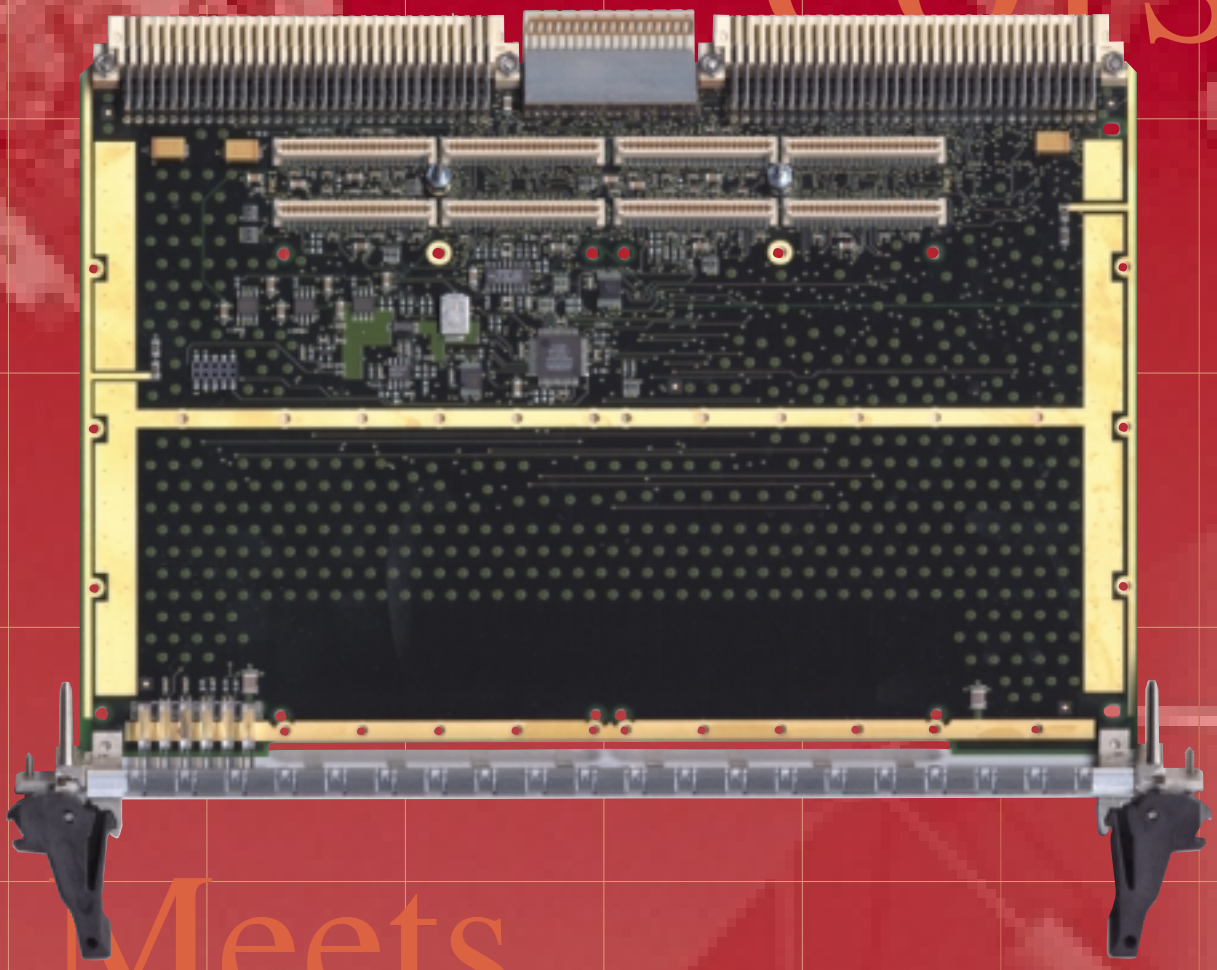
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Find the *Kontron / Thales V2PMC-RC-00* at our website: *Click HERE*

Where

THALES V2PMC

COTS



Meets

Dual Slot, Low Latency, 64-bit PMC Carrier

- Two PMC Slots
- 64-bit, Low Latency PCI Bus Extension
- Front or Rear I/O
- Commercial or Rugged Versions
- Single VME Slot Stand-Alone Solution

Reality

THALES
COMPUTERS

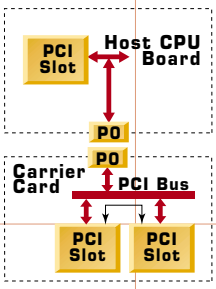
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THALES V2PMC
Dual Slot, Low Latency, 64-bit PMC Carrier

The V2PMC is an expansion board for Thales Computers SBCs and Computing Nodes.

Dual PMC Extension

The V2PMC expands the mother board PCI bus, as shown in the opposite diagram, using the P0 connector of the VME backplane to directly couple the carrier to the motherboard. Up to two additional PMC modules can be hosted for each carrier without encumbering any PMC sites resident on the mother board. The two PMC sites on the carrier also have their PMC I/O routed to the VME P2 connector.



Note: The V2PMC supports double PMC format boards per IEEE P1386.

Front or Rear I/O

Both PMC slots are equipped with the PMC P4 connector for rear I/O capability via the VME P2 in accordance with the VITA-35-2000 standard.

PCI Extension

The V2PMC extends the Thales boards PCI bus via the P0 connector as follows:

- 64 bit 33MHz mode for both PMC sites
- VIO provided by the Thales mother board allowing for 5v or 3.3v signaling.
- Voltage keyed pin location sensing for VIO and PMC mismatch detection
- Low-latency implementation (no PCI-PCI bridge)

P0 to P0 connection is made through the backplane using the IFDPP0 passive backplane overlay.

Commercial or Rugged versions

The various versions of V2PMC are tested against environmental constraints which match those used for Thales SBCs.



Warning:

V2PMC requires 3.3V to be supplied by the VME 5-row backplane.

Temperature

	S	W	RA	RC
Storage	-45°C +85°C		-45°C +100°C	
Operating	0°C +55°C 1.2m/s airflow	20°C +65°C 1.5m/s airflow	-40°C à +75°C 1.5m/s airflow	-40°C +85°C, conduction cooling
Humidity	90% HR, non condensing		95% HR non condensing	
Altitude	-300m +3000m			
Thermal shocks	No		7°C/mn	

V2PMC-RC supports all PMCs complying with VITA-20-199x which defines the mechanical and thermal interface for conduction cooled mezzanine cards.

Easy maintenance and replacement

Due to the P0-P0 connection, the V2PMC carrier is mechanically independent of its mother board. This modular design allows the resident PMC modules to be easily maintained in complex deployed systems.

Order Codes

V2PMC	Dual PMC Carrier
V2PMC-RA	Dual PMC Carrier Rugged Air Cooled
V2PMC-RC	Dual PMC Carrier Rugged Conduction Cooled
IFDPP0	Two Slot Passive P0 Backplane Overlay

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With the ISO 9001 Certification, THALES Computers guarantees Total Customer Satisfaction

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