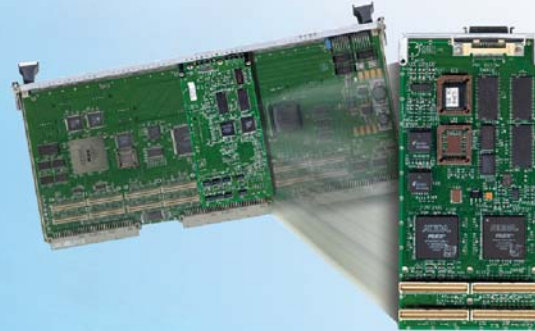


VME MEZZANINE CARRIER

ZCM596



The 2nd generation multifunction VME Mezzanine Carrier accommodates up to four industry-standard PCI Mezzanine Cards (PMCs) and can perform arbitration for the PMCs. The Carrier dramatically increases the functional density of the System 550 or Avalon chassis. Now, up to four (4) diverse functions fit the space previously occupied by only one.

PMC modules are defined by the IEEE 1386.1 standard to follow the same electronic design as PCI cards, but in a mezzanine card form factor. One to four 2.9-inch by 5.9-inch (75mm by 150mm) cards attach to the Carrier motherboard as daughter cards and occupy a single 9U VMEbu/MUXbus backplane slot.

The Carrier functions as a bridge between the standard PCI bus, connecting the PMCs to the real-time MUXbus and the VMEbus at full rates. Data can also move between PMCs on the Carrier at full PCI bus rates or with an onboard "electronic patch panel" to move serial data between PMCs.

The VME Mezzanine Carrier also transfers data between the VMEbus and the MUXbus.

KEY FEATURES

- Accepts one to four PMC Modules
- Occupies only a single system bus slot
- Sustains full onboard PCI bandwidth
- Provides onboard tag space for one million parameters
- Bridges data between the PMCs and the real-time system bus at full data rates
- Electronically controlled patch panel moves signal streams between PMCs
- Compatible with Base 550 System Chassis (PR0550A, PR0550B) and Avalon System Chassis (AVALON-R)
- Can use in conjunction with 1 VME Mezzanine Carrier with Arbitrator (ZCA596)

Excellence You Can Measure



VME MEZZANINE CARRIER

ZCM596 SPECIFICATIONS

Inputs See individual PMC data sheets

Outputs See individual PMC data sheets

PMC Carrier

Mechanical I/F Spec.IEEE1386.1
Electrical SpecIEEE1386 (PCI)
Address/DataA32/D32/D64, PMC PN1, PN2, PN3,
PN4 connectors
PCI Bus Clock33 MHz
Signaling5V
Power+3.3V, +5V, ±12V, 7.5 W max. per
PMC
Quantity1, 2, 3, or 4 PMC modules
PMC Slot Module TypesSingle-wide or double-wide
Inter-PMC Link8 programmable serial lines to route
outputs from one PMC to another
Maximu Aggregate
Throughput8 million samples per second
(sustained)

Program Setup and Control

PMCsSee individual PMC data sheets
Keyboard and MouseFill-in-the-blank OSF/Motif™ displays
with list-pick selections
ASCII Text FileUser-created description
APIApplication Programming Interface for
remote setup (option)

General Requirements

System 550 or Avalon Chassis ..1 9U slot
Mezzanines1 to 4 PMCs
Maximum per Chassis14 (550) / 4 (Avalon)
Maximum per SystemVirtually unlimited
Rear Panel0 slots; see individual PMC module
data sheets for requirements
Power5V @ 3.0 A for Carrier card; see
individual PMC module data sheets for
requirements
EnvironmentSee Base 550 System Chassis
(PRO550A, PRO550B) and Avalon
System Chassis (AVALON-R) data
sheets
Temperature MonitoringOnboard 10-bit probe*
Dimensions365mm (9U) x 160mm (Eurocard
std.)
Status Display8-character display

Compatibility

Base 550 System Chassis (PRO550A, PRO550B)
Avalon System Chassis (AVALON-R)
SWA500 Applications Software
VISTA Software

Ordering Information

ZCM596VME Mezzanine Carrier (4 VME
Slots)

**Factory Quote*

Telemetry-West

9020 Balboa Avenue
San Diego, CA 92123-3507
858.694.7500 800.351.8483
Fax: 858.279.0693
www.L-3Com.com/TW



Telemetry & RF Products