



I/O Solutions™

Specifications

- **VMESC5 - VME 5-Slot Carrier**

- Physical Dimensions: 9.187 inches x 6.299 inches (233.330 mm x 160.000 mm)
- Weight: 9.984 oz. (283 grams)
- Hardware Compatibility: VMEbus compliance with IEEE 1014-1987, VME Specification Revision C.1 (October, 1985); IP interface design compliance with IndustryPack Logic Interface Specification, Rev. 0.7.1 (memory transfers not supported)
- Electrical Requirements (No IP Modules Installed):
 - ±5 Vdc @ 0.53 Amps, ground
 - +12 Vdc @ 0.0 Amps, ground
 - -12 Vdc @ 0.0 Amps, ground
 - (Note that VMEbus ground and IP grounds are not isolated through VMESC5)
- Operating Temperature: 0° to +70° C (+32° to +158° F)
- Storage Temperature: -40° to +85° C (-40° to +185° F)
- Humidity (non-condensing): 5% to 95%
- Operating Vibration: 10 G's RMS, 10-55 Hz, random
- Operating Shock: 50 G's max.
- Operating Altitude: 10,000 ft.
- MTBF (Mean Time Between Failure): 667,245 hrs. per MIL-HDBK-217F
- IP Address MAP (from base): 128 Bytes Each for I/O and then ID for each IP slot, from A through E
- Carrier Register MAP (in order): IP Reset, Error Status, Interrupt Registers for IPs A through E, and General Purpose Registers A through E.
- Hardware self-timed resets for each individual IP; triggered via system reset and software control; 200 ms (minimum)



- I/O Read and Write, ID Read and Write, and Interrupt Vector Read Access Times: 375 ±62 ns
 - Interrupt Request Delay from IP to VMEbus: 14 ns (typical)
 - IACK daisy-chain pass-through time: 64 ns (typical)
 - 10 KW Pull-up resistors on all unused and tri-stated IP Logic Bus Signals, per specification
- **VMESC4M - VME 4-Slot Carrier**
 - Physical Dimensions: 9.187 inches x 6.299 inches (23.33 cm x 15.99 cm)
 - Weight: 10.28 oz., 291 grams (includes front panel)
 - Electrical Requirements (No IP Modules Installed):
 - +5 Vdc (+5%) @ .43 Amps
 - +12 Vdc @ 0.0 Amps
 - -12 Vdc @ 0.0 Amps
 - Operating Temperature: 0° to +70° C (+32° to 158° F)
 - Storage Temperature: -45° to +85° C (-40° to 185° F)
 - Humidity (non-condensing): 5% to 95%
 - MTBF (Mean Time Between Failure): 349,486 hours per MIL-HDBK-217F
 - IP Address MAP for I/O and ID (from base): 128 Bytes each for the I/O and the ID on each of the IP slots (A through D)
 - IP Address MAP for Memory (from base): 1 or 8 MB per IP slot (A through D), depending on the value selected in the memory enable register (A24 or A32)
 - Hardware self-timed resets for each individual IP: Triggered via System reset and software control (240ms minimum)
 - **VME3SC2 - 2-Slot Carrier**
 - Physical Dimensions: 3.937 inches x 6.299 inches (100.000 mm x 160.000 mm)
 - Weight: 4.383 oz. (124 grams)
 - Hardware Compatibility: VMEbus compliance with IEEE 1014-1987, VME Specification Revision C.1 (October, 1985); IP interface design compliance with IndustryPack Logic Interface Specification, Rev. 0.7.1 (memory transfers not supported)
 - Rarely used memory transfers not supported for significant cost reduction.
 - Electrical Requirements (No IP Modules Installed): ±5 Vdc (±5%) @ 0.45 A, ground
 - +12 Vdc @ 0.0 Amps, ground
 - -12 Vdc @ 0.0 Amps, ground
 - (Note that VMEbus ground and IP grounds are not isolated through VME3SC2)
 - Operating Temperature: 0° to +70° C (+32° to +158° F)
 - Storage Temperature: -40° to +85° C (-40° to +185° F)
 - Humidity (non-condensing): 5% to 95%
 - Operating Vibration: 10 G's RMS, 10-55 Hz, random

- Operating Shock: 50 G's max.
 - Operating Altitude: 10,000 ft.
 - MTBF (Mean Time Between Failure): 1,016,673 hrs. per MIL-HDBK-217F
 - IP Address MAP (from base): 128 Bytes Each for I/O and then ID for each IP slot, A and B
 - Carrier Register MAP (in order): IPack Reset, Error Status, Interrupt Registers (each) for slots A and B, and General Purpose (user defined) Registers A and B
 - Hardware self-timed resets for each individual IP; triggered via system reset and software control; 200 ms (minimum)
 - I/O Read and Write, ID Read and Write, and Interrupt Vector Read Access Times: 375 ±62 ns
 - Interrupt Request Delay from IP to VMEbus: 16 ns (typical)
 - IACK daisy-chain pass-through time: 28 ns (typical)
 - 10 KW Pull-up resistors on all unused and tri-stated IP Logic Bus Signals, per specification
- **V64XSC4 - VME 4-Slot IP Carrier**
 - Physical Dimensions: 9.187 inches x 6.299 inches (23.33 cm x 15.99 cm)
 - Weight: 11.06 oz., 313 grams (includes front panel)
 - Electrical Requirements (No IP Modules Installed):
 - +5 Vdc (+5%) @ .3 Amps
 - +12 Vdc @ 0.0 Amps
 - -12 Vdc @ 0.0 Amps
 - Operating Temperature: 0° to +70° C (+32° to 158° F)
 - Storage Temperature: -45° to +85° C (-40° to 185° F)
 - Humidity (non-condensing): 5% to 95%
 - MTBF (Mean Time Between Failure): 27,177,606 hours per MIL-HDBK-217F