

Specifications

Physical Dimensions

TABLE A-1 Physical Dimensions

Dimension	Measurement
Length	5.776 in. (146.71 mm)
Width	3.3 in. (83.82 mm)
Weight	4.3 oz. (125g)

Power Requirements

TABLE A-2 Power Requirements

Specification	Measurement
Maximum Power Dissipation	14 Watts
Maximum Power Consumption	2.8 Amps @ 5V
Voltage Tolerance	5V +/- 5%
Ripple	Maximum 100 mV
Operational Current	5V, 2.0 Amps

Environmental Specifications

TABLE A-3 Environmental Specifications

Condition	Operating Specification	Storage Specification
Temperature	0 to 70°C (+32 to +131°F)	-40 to 75°C (-40 to +167°F)
Relative Humidity	5 to 85% non-condensing (40°C, wet bulb temperature)	0 to 95% non-condensing 40°C /hour
Altitude	-1000 to +15,000 ft.	-1000 to +50,000 ft.
Shock	5g, 1/2 sine wave, 11 msec	30g, 1/2 sine wave, 11 msec
Vibration, pk to pk displacement	0.005 in. max. (5 to 32 Hz)	0.1 in. max (5 to 17 Hz)
Vibration, peak acceleration	0.25g (5 to 500 Hz) (Sweep Rate = 1 octave/min.)	1.0g (5 to 500 Hz) (Sweep Rate = 1 octave/min.)

Performance Specifications

TABLE A-4 Performance Specifications

Specification	Performance
Maximum Ethernet Transfer Rate	10/100 Mbps per channel
Host Interface	IEEE 1496 SBus master interface with support for 64-bit mode accesses, and an SBus slave interface, at 32-bit mode only.
Network Interface	100BASE-TX using Category 5 (data-grade) cable; 10BASE-T using Category 3 (voice-grade) cable or better Single UTP RJ-45 for both 10 and 100 Mbps per channel
Ethernet Version	Conforms to IEEE 802.3u
SBus Burst Sizes	16/32/64 bytes
SBus Parity	Yes
SBus Clock	25 MHz max., 16.67 MHz min.
Max SBus Burst Transfer Rate	67 (25 MHz), 44.89 (16.67 MHz) Mbytes/sec ¹
Steady State SBus Transfer Rate	50 Mbytes/sec ²
Max Ethernet Transfer Rate	12.5 Mbytes/sec per channel
SBus Data/Address Lines	D (31:0)/PA (18:0)
SBus Modes	Master/Slave
Capacitance per SBus Signal Line	≤20 pF
SBus Version	Conforms to IEEE 1496

¹ Assumes 64 Byte Burst and 0 SBus Latency

² 4 Channels Running At Max Ethernet Speed
