

ZMI 2400 Measurement Board

P/N	DESCRIPTION	PERFORMANCE	
8020-0104-11	1 axis, VME 6U board	Position Resolution ⁽¹⁾	$\lambda/2048$ (0.31 nm)
8020-0104-15	1 axis, VME 6U board with Ethernet	Position Range ⁽¹⁾	± 10.6 m
8020-0104-12	2 axes, VME 6U board	Position Format	36 bit - 2's complement
8020-0104-16	2 axes, VME 6U board with Ethernet	Time Stamp Resolution	25 nanoseconds
GENERAL		Maximum Velocity ⁽¹⁾	2.1 m/s
Maximum Number of Boards in a System	7; there may also be limits due to VME or P2 population	Maximum Acceleration	100 g (10 g max. during reset)
Reference Inputs	ST fiber optic or HSSDC2 electrical	Data Age (P2 output)	1 μ s typical
Reference Outputs (1 per board)	HSSDC2 electrical	Data Age Uncertainty, Compensated	± 1.2 ns (3 boards)
Measure Inputs (1 per axis)	ST fiber optic	Electronic Accuracy ⁽¹⁾	≤ 1.2 LSB at ± 0.1 m/sec ≤ 1.4 LSB at ± 1.0 m/sec ≤ 1.6 LSB at ± 2.1 m/sec
Signal Strength Test Points (1 per axis)	RJ-11 connector	ENVIRONMENTAL	
Status Indicators (LEDs)	Green – meas present (1 per axis), ref present, User LED Amber – meas error (1 per axis), ref error, Config.	Operating Temperature	10 to 55°C
Minimum Input Optical Power	> 1.9 μ W AC	Operating Humidity	0 to 90%, noncondensing
Minimum Reference Optical Power	> 8 μ W AC	Operating Pressure	Standard 1 atmosphere (700-800 mmHg)
POWER REQUIREMENTS		(1) Based on double pass interferometer.	
2401	5 VDC +0.25V/-0.125V @ 3.5A (max)		
2402	5 VDC +0.25V/-0.125V @ 5A (max)		
COOLING REQUIREMENTS			
10 to 40° C	60 linear fpm		
40 to 55° C	120 linear fpm		
COMPLIANCE			
VME	VMEbus specification ANSI/VITA 1-1994 Addressing: A16 or A24 Data Transfer: D16 or D32 D08 (O) Interrupt Acknowledge Cycle		
Other	UL94V0, CE Mark (Emissions EN 55011A, Immunity EN 50082-1, Low Voltage Directive EN 61010-1, tested inside CE Mark compliant chassis)		

Distribution in the UK & Ireland



Lambda Photometrics Limited
 Lambda House Batford Mill
 Harpenden Herts AL5 5BZ
 United Kingdom
E: info@lambdaphoto.co.uk
W: www.lambdaphoto.co.uk
T: +44 (0)1582 764334
F: +44 (0)1582 712084