

Electrical Specifications

11/24/2014 Edition

I2C Interface	
Channels	SDA & SCL
Address Format	7-bit
Modes	Master & Multi-Master
Bus Voltage (V _{bus})	Programmable - 1.50V to 5.25V (10mV steps) +/-2% V _{bus} available to power external I2C target (100 mA limit)
Input Thresholds	V _{IH} : 0.7 V _{bus} (typical) V _{IL} : 0.2 V _{bus} (typical) V _{TH} : 0.1 V _{bus} (typical)
Input Voltage Range	-0.3 to 6.0V (operational) -5 to 10V (maximum rating)
Bus Speed	Standard: 7.0KHz to 3.84MHz Advanced: 254Hz to 4.16MHz Programmable Parameters: <ul style="list-style-type: none">- t_{SU};DAT (20nS steps)- t_{HD};DAT (20nS steps)- t_{HIGH} (20nS steps)
SDA/SCL Sink Current	Selectable - 10 mA, 20 mA, or 30 mA (+/-15%) Constant-current drive, Short-circuit protected
Pull-Up Resistors	Programmable – 273 to 4.99K ohms & Open (16 values)
SCL/SDA Input Capacitance	< 40pF without test cables
Connector Type and Pin-outs	Standard 9-Pin, D-sub, Female Pin 1 = SDA Pin 7 = D1 Pin 4, 5 = GND Pin 6 = SCL Pin 3 = D0 Pin 2, 8, 9 = No Connection
LEDs	
Power	Power-On
SDA/SCL	Bus Activity - Data & CLK
PC Interface	
Communication	USB 2.0 Full Speed
Connector	Standard type B socket
Power	5V @ 300mA (max), USB supplied

Mechanical and Environmental Specifications

Mechanical	
Dimension	4.1" x 1.1" x 5.5" (WxHxL)
Weight	0.9lbs
Material	Vinyl-clad steel cover with an extruded aluminum base.
Environmental	
Operating Temperature	0C to 50C
Storage Temperature	-20C to 70C

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