

Software Module Summary	BusPro-I	CAS-1000-I2C/E
I²C Feature Summary		
Monitor (I ² C Traffic Capture—Up to 5 MHz)	✓	✓
Debugger (I ² C Master-Up to 5 MHz)	✓	✓
Programmer (In-System Programming)	✓	✓
Emulator (I ² C Slave Device Emulation—Up to 1.9 MHz)		✓
Test (Script-Driven I ² C Bus Tester)		✓
Parameters Scope (I ² C Bus Measurement)		✓

Specifications	BusPro-I	CAS-1000-I2C/E
General		
Part Number	90010	90002
High-speed, Bus-powered USB 2.0 Device	✓	✓
I ² C Exerciser Software GUI	✓	✓
Windows XP/Vista/7 Support	✓	✓
RoHS Compliant, CE Marked	✓	✓
Third Party Interface		
Development API / DLL	✓	✓
LabVIEW Support	✓	✓
I²C Bus Support		
Standard-mode, Fast-mode, Fast-mode Plus (Fm+), & High-speed mode (Hs-mode)	✓	✓
7-bit & 10-bit Address Support	✓	✓
Bus Master, Multi-Master Capable	✓	✓
PEC (Packet Error Checking) Generation & Validation	✓	✓
Bus Electrical Support		
Programmable Reference Voltage Drive (0.8V to 5V)	✓	✓
Separate Programmable High/Low Thresholds Supporting Hysteresis	✓	✓
Programmable Pull-ups (250 to 50K ohms)	✓	✓
Programmable Accelerated Rising Edge Slope Control	✓	✓
External Signaling		
Two General Purpose I/O Signals	✓	✓
SMB Trigger In	✓	✓
SMB Trigger Out	✓	✓
IEEE-1149.1 Boundary-Scan JTAG Controller		✓

Software Module Detail	BusPro-I	CAS-1000-I2C/E
Traffic Monitor		
Trace Listing with Time Stamp	✓	✓
Timing Waveform Depiction	✓	✓
Programmable Traffic Filtering & Symbol Replacement	✓	✓
Trigger Event Detection	✓	✓
Automatic Protocol Checking	✓	✓
Continuous Logging of Trace Data	✓	✓
Debugger		
GUI-based Debugging	✓	✓
Serial EEPROM Programmer		
Read, Erase, Program, & Verify	✓	✓
Device Emulator		
Emulated Master Device		✓
Emulated Slave Device (Up to 10)		✓
Emulated Slave Clock Stretching on Data ACK Bit		✓
Script-driven Bus Tester		
Script-based Debugging		✓
Forced Bus Error Injection		✓
Glitch Pattern Injection		✓
Parameters Scope		
Analog Waveform Display		✓
Parametric Measurements		✓
Target Reference Voltage Measurement		✓
Target Capacitance Measurement		✓
Target Pull-up Resistance Measurement		✓
Target Rise/Fall Times Measurement		✓
Target Setup/Hold Times Measurement		✓
Target Device Slave Suite Detection		✓
Target Edge Analog Waveform Capture at Protocol Points		✓
Validate Most Bus Specification Characteristics		✓