WriteNow! Series

Single and Parallel In-System Programmers

Key Features

- **Ultra-fast, universal In-System Programmers**
- **True parallel, program up to 8 devices at once**
- **Industrial-grade reliability**
- **Standalone operations or host controlled**
- **Easy to install and to use**
- **Compact size, fixture friendly**
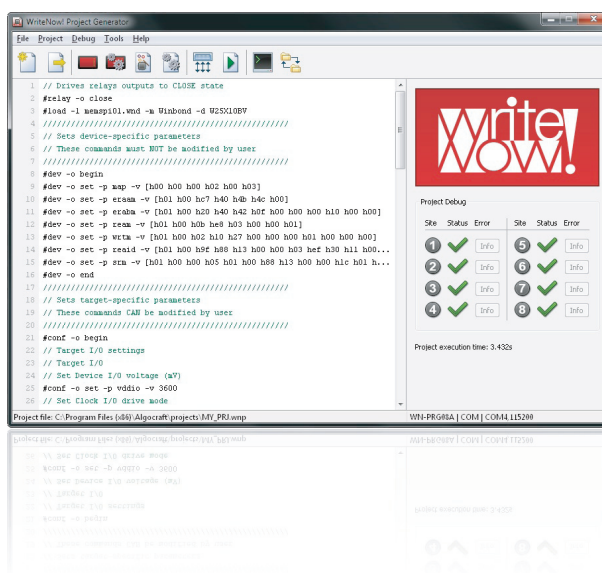
Hardware Features

- Supports microcontrollers, serial memories, parallel memories and other programmable devices
- High-speed, parallel programming
- Compact size (fixture friendly)
- Standalone operations or host controlled
- Designed for easy ATE interfacing (Agilent, Teradyne, TRI, SPEA, etc.)
- Supports multiple interfaces (JTAG, BDM, SPI, I^{2}C, UART, etc.)
- Memorizes data on a built-in memory card
- Programmable power supply output (1.5-13V)
- Programmable I/O voltage (1.6-5.5V)
- High-speed I/O
- LAN, RS-232 (isolated) and low-level interface (isolated)
- ISP I/O relay barrier (only available on the single-site model)
- EOS/ESD I/O protection
- Wide range power supply (15-24V)

Applications

- On-board programming for Automatic Test Equipment
- On-board programming for standalone stations
- Functional test
- Automotive

Software Features

- WriteNow! Project Generator - easily create and debug a programming Project in a few guided steps
- Built-in utilities: Image File Creation, File Manager, Easy ISP
- Signal Connections
- WriteNow! API - for custom application (Visual C, Visual Basic, LabView, etc.)
- ASCII-based command line protocol
- Variable data handling for serial numbering, MAC addresses, production codes, etc.

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SOLUTIONS FOR THE PROGRAMMING INDUSTRY

Write Now!

Model	WN-PRG01A	WN-PRG02A	WN-PRG04A	WN-PRG08A
Programming Sites	1	2	4	8
Power Supply	15-24V			
Dimensions — With Enclosure	143 x 90 x 29mm	153 x 110 x 29mm	153 x 110 x 29mm	153 x 110 x 29mm
Dimensions — Without Enclosure	143 x 90 x 17mm	153 x 110 x 16mm	153 x 110 x 16mm	153 x 110 x 16mm
Device Type Support	Microcontrollers, Serial Memories	Microcontrollers, Serial Memories	Microcontrollers, Serial Memories	Microcontrollers, Serial/Parallel Memories
Protocols	UART, SPI, JTAG, I^{2}C, BDM, SWIM, SWD, etc.			
Relays Barrier	YES	NO	NO	NO
ISP Lines — Adj. Voltage Range	1.6-5.5V			
ISP Lines — Adj. Voltage Resolution	100mV			
ISP Lines — Bidirectional Lines	6	12	24	48
ISP Lines — Prog. Clock Out Lines	1	2	4	8
Prog. Power Supply (PPS) — Range	1.5-13V			
Prog. Power Supply (PPS) — Resolution	100mV			
Prog. Power Supply (PPS) — Channels	1	2	4	8
Host Interface — RS-232 (Isolated)	Yes			
Host Interface — LAN	Yes, 100Mbit/s			
Host Interface — USB	Not yet available			
Low-Level Interface (Isolated)	START, START_ENA, OK/ERR, BUSY, PRJ_SEL[0..5]	START[1..2], START_ENA[1..2], OK/ERR[1..2], BUSY, PRJ_SEL[0..5]	START[1..4], START_ENA[1..4], OK/ERR[1..4], BUSY, PRJ_SEL[0..5]	START[1..8], START_ENA[1..8], OK/ERR[1..8], BUSY, PRJ_SEL[0..5]
Accessories — Relay Barrier Module	Included	WN-REB04A	WN-REB04A	WN-REB08A
Accessories — Demultiplexer Module		WN-DM2X2A (4ch) WN-DM2X3A (6ch) WN-DM2X4A (8ch)	WN-DM4X2A (8ch) WN-DM4X3A (12ch) WN-DM4X4A (16ch)	WN-DM8X2A (16ch) WN-DM8X3A (24ch) WN-DM8X4A (32ch)

Universal Device Support

SPEED LIMIT ∞ — High-Speed Programming

True Parallelism

Secure IP Transfer from Design to Manufacturing

Variable Data Programming

Silicon Support

- Atmel
- Cypress
- Ember
- Freescale
- Fujitsu
- Holtek
- Infineon
- ISSI
- Macronix
- Microchip
- Micron
- Numonyx
- NXP
- ON
- Ramtron
- Renesas
- Rohm
- Sanyo
- SII
- Silicon Labs
- Spansion
- SST
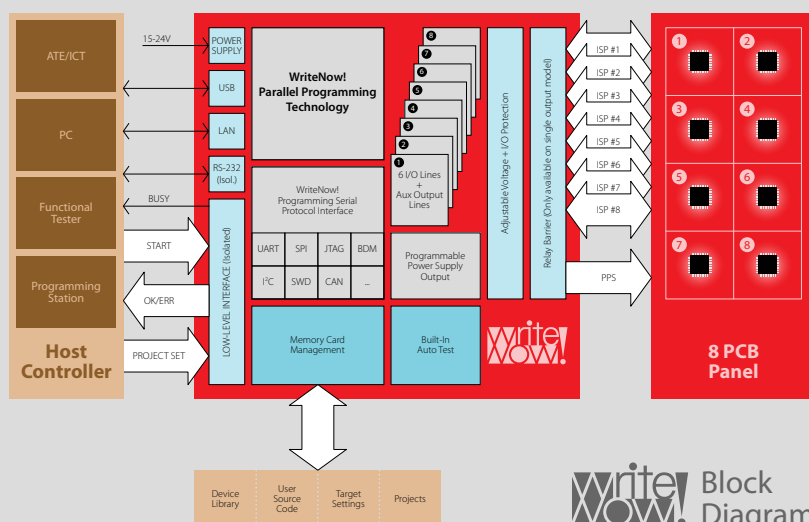- STMicroelectronics
- Texas Instruments
- Winbond

New manufacturers and devices are constantly added.

Package Contents

- WriteNow! unit
- 15V power supply
- Serial and USB cables
- WriteNow! test board
- 48-way, female wire-wrap connector
- Software CD

Accessories

- Relay barrier module
- Demultiplexer module
- Ribbon cable
- Wire-wrap connector

WriteNow! Block Diagram

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