Algocraft®

Renesas Ready Ecosystem Partner Solution
Algocraft WriteNow! Programmers
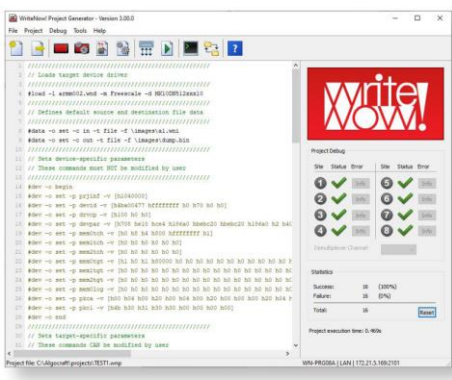
RENESAS PARTNER NETWORK READY

Solution Summary

The WriteNow! parallel in-system programmers support popular Renesas MCUs and have a compact size for an easy ATE/fixture integration. They work standalone or connected to a host PC through RS-232, USB or LAN. Supported microcontrollers are the [RA Family](#), [RX Family](#) and [RL78 Family](#).

Features/Benefits

- Ultra-fast, Universal In-System Programmers
- True parallel, program up to 8 devices at once (up to 32 channels in de-multiplexing)
- Support range of Renesas MCUs (RA, RX, RL78), automotive and legacy products
- Standalone operations or host controlled
- Memorizes data on a built-in memory card
- Relay barrier and demultiplexer modules
- SDK/ API—for custom application (Visual C, Visual Basic, C#, LabView, etc.)
- Protection mode and data encryption

Diagrams/Graphics

Project Generator

Target Markets and Applications

- Automotive
- Cybersecurity (IP Protection)
- On-board programming
- Functional Test

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PARALLELISM, HIGH-SPEED PROGRAMMING

Typically, PCBs are grouped into PCB panels. To program all the devices in a panel, a traditional approach consists on using either multiple programming tools (with added costs and complexity) or a demultiplexing solution (with slower overall programming time). The WriteNow! technology allows the programming of up to 8 devices at once, drastically reducing programming times, costs, and system complexity. In addition, the WriteNow! technology performances allow to reach the theoretical programming speed for any given device, thus shortening as much as possible the programming phase of the production process.

THE BENEFITS OF WRITENOW! PRODUCTS IN PRODUCTION

Programming Time: a key factor
The WriteNow! technology has been designed to achieve high-speed programming without sacrificing high quality and flexi-10bility.

Compact Size
The 8 channel programmer still represents the most compact programming solution – designed to be integrated inside fixtures.

Standalone Control
Binary codes, board parameters and programming flow reside inside WriteNow! A simple "exec" command string can be sent by an host to start the programming flow.

Protection Mode and Data Encryption
WriteNow! provides a security feature to protect the intellectual property of the embedded firmware code.

ISO 26262 and IEC61508
WriteNow! programmers have been qualified, by a third party laboratory, as ISP universal programmers compliant with automotive projects that require the safety standard ISO 26262 and IEC61508.

Connectivity
Several connection ports to a host PC: ethernet for maximum flexibility, USB for immediate use, RS232 UART for the oldest systems, ATE.

Distributors - Algocraft