

FLASHRUNNER

II Series Universal Manufacturer-Specific In-System Programmers



Overview

FlashRunner II series is a range of high-performance, standalone In-System Programmers specific for Flash-based microcontrollers and serial memories. FlashRunner II series is targeted at production environments and can work either in full standalone mode or controlled by a host system.

Features

- Fastest programming algorithms (as fast as target device's memory technology limit), approved by silicon manufacturers;
- Easy ATE integration;
- Standalone operations (projects and code images stored on a memory card);
- Also controllable by any host system via RS-232 or Ethernet;
- Flexible, fully configurable;
- Compact and robust design for production environments;
- Data integrity guaranteed (every data transfer to/from the host system or Secure Digital card is CRC tagged).

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FlashRunner II Series Hardware Features

FlashRunner features state-of-the-art electronics to provide you with high integration flexibility in a compact footprint.

- 9 to 24V DC power supply input;
- Five digital I/O lines;
- Two digital I/O or analog output lines;
- Two programmable output voltages (0 to 15V, 0.25A and 0 to 5V, 0.5A);
- One analog input line;
- One programmable clock output;
- Secure Digital memory card (up to 2 GB);
- 512 bytes on-board dynamic memory;
- On-board timekeeper and calendar;
- I/O protection;
- Optoisolated inputs for project selection;
- Two optoisolated command inputs (START and STOP);
- Three optoisolated status outputs (FAIL, PASS, BUSY);
- Optoisolated RS-232/Ethernet channel.

FlashRunner II Series Software Features

FlashRunner is set up and controlled via ASCII-based commands. FlashRunner can receive and execute commands in two ways:

- Over the RS-232 or Ethernet connection (Host mode);
- Via “scripts” stored in its SD card (Standalone mode).

In the first case, FlashRunner is controlled by a host system (e.g. Windows HyperTerminal); in the latter case, FlashRunner works in standalone mode and is fully autonomous.

- Fully autonomous standalone mode thanks to its SD memory card (FAT16);
- Controllable by any host system through a terminal utility and simple ASCII protocol;
- Unlimited projects (scripts);
- Log files;
- Erase, blank check, program, read, verify, oscillator trimming, etc.

FlashRunner comes with a Windows utility that allows you to communicate with the instrument and perform the most common operations: send commands, manage SD card files, update the instrument’s firmware, etc.

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The FlashRunner II series is targeted at production environments and can work either in full standalone mode or controlled by a host system. The FlashRunner II series is suitable for programming systems and Test-Fixtures when the programming applications are for one silicon producer only.

- FR02ATM0** Supports Atmel devices
- FR02CYP0** Supports Cypress devices
- FR02ELM0** Supports ELMOS devices
- FR02FJT0** Supports Fujitsu devices
- FR02FSL0** Supports Freescale devices
- FR02INF0** Supports Infineon devices
- FR02MCP0** Supports Microchip devices
- FR02MEM0** Supports serial memories
- FR02NXP0** Supports NXP devices
- FR02RENO** Supports Renesas devices
- FR02SLL0** Supports Silicon Labs devices
- FR02STM0** Supports STMicroelectronics devices
- FR02TXI0** Supports Texas Instruments devices

Typical Applications

