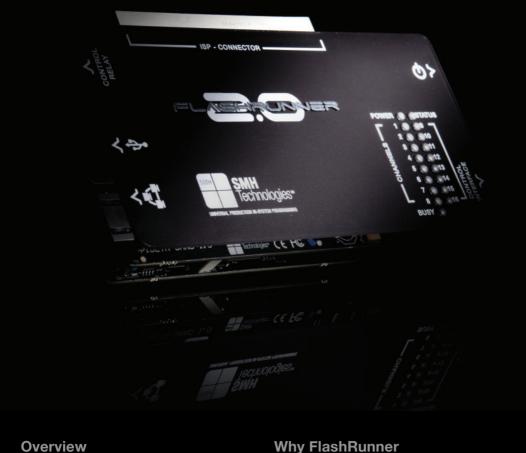
The innovative Programmer which assures to SMH Technologies





## FlashRunner 2.0 is the most innovative In-System parallel programmer available.

This programmer implements cutting-edge technology that features 16 independent parallel programming channels while targeting 8,16 and 32 bit based microcontrollers and serial memories. With unique flexibility this new FlashRunner is specifically designed to program multi-PCB panels and highly structured boards with several programmable devices providing up to 16 independent

channels. The user friendly new FR2.0 WorkBench GUI allows the user to configure the system in few clicks, minimizing time-to-production.

## years experience in ISP programming. The introduction of FlashRunner 2.0 provides SMH 3 years technological compe-

titive advantage in the market. Modern PCB production often requires faster performance. High performance manufacturing systems reduce production costs by lowering cycle times. To reduce costs while maintaining

FlashRunner 2.0 combines the most advanced technology based on SMH's ten

reliability, these manufactures produce circuit board assemblies in multi up panels. FlashRunner 2.0, uses cutting-edge

programmer in the market.



## Ethernet LAN / USB host interface, optoisolated Standalone mode via control interface connector · Relay barrier control interface

ATE

PC

**Dimensions** 

ISP connector

FlashRunner

ii 10 - ii -

Idle

0

CONTROL

power suply range

**Hardware Features** 

Supports most ISP protocols

• Up to 5.000+ device support, with daily updates

16 parallel and indipendent programming channelsCompact design for easy ATE integration

Typical application

Up to 30 Mhz communication frequency

FlashRunner 2.0

**ETH** 

83 x 30 mm

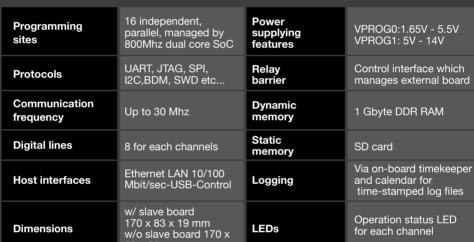
DIN41612

9 V-14 V

(BDM, JTAG, SPI, I2C, MON, ICC, SCI, UART, and many others)

Programming voltage / current measure and trimming for each channel

FlashRunner 2.0 Control Programming Core Interface station SD **Functional RAM USB** Memory



**Power supply** 

Output

buffers

# **Software Features** · FlashRunner 2.0 a Linux Embedded operating system, which relies on a real time scheduler and a full featured hardware abstraction layer. · FlashRunner 2.0 features software interfacing libraries which enables customers to complete systems integration using software from different frameworks, as LabVIEW© and Visual C/C++. · A new, friendly and interactive GUI (Graphic User Interface) reduces configuration efforts by guiding users to create a working project in a few mouse clicks. This interface detects and identifies errors such as mismatches between target device and customer firmware, as well as power supply setup.



**Technical Support** 

production deadlines in time.

The FR Series

Purchasing a product is only part of solving your programming needs. We know that you must count on professional help should the need arise. FlashRunner is sold

and supported by a worldwide network of resellers and system integrators, comes projects and providing you with accurate programming flow certifications. **Device support** Our supported device list is updated daily and counts more than 6000+ items. However, if you still can't find the device you are looking for we offer you a development service, which meets your needs. Every request will be handled in order to meet your

**SERIES** I high perfomance programming engine FlashRunner I models are single site programmers, targeted for production environments. FRI series are Universal and Fully Upgradeable programmers, which work either in full standalone mode or controlled by a host system. SERIES II Manufacturer-Specific In-System Programmers
FlashRunner II models Include all the programming algorithms
for a selected silicon producer. Fast and Reliable for the Industrial Environment.

with a three-year warranty and is backed

up by knowledgeable and fast technical support. Additionally, our engineers are available for custom designs and vali-

dation reports, to help you start up your

SERIES III Essential programmer oriented for use in R&D area and Lab applications
FlashRunner III models include all the programming algorithms for a selected silicon producer. Fast and Reliable, compact size easy to fit into test equipments in Industrial production lines. **=** Designed for ATE High Integration Performance

Fast and Reliable for the Industrial Environment. Designed in Cooperation with ICT Automatic Test Equipments Specialists. **TR** PXI Fully hardware and software PXI integration Multi-target parallel programming with independent channels

www.smh-tech.com

PXI standard module. Three parallel in system programming channels.

The best complete solution for programming multi-PCB panel assemblies.



Systein Italia S.r.l. Ph. +39 0434 421 111 Corso Garibaldi, 19/A Fax +39 0434 639 021 33170 Pordenone (PN) Italy

Multisites True Parallel in system programmers

Connectivity

technology to address multi up panels and deliver the fastest and most reliable

INDUSTRIAL UNIVERSAL TRUE STRENGTH PARALLELISM

16 different device panel

for each channel

SECURITY

Yes

Yes

LEDs

Voltage read/trim

**Current read/trim**