1 True Parallel

2 High-Performance

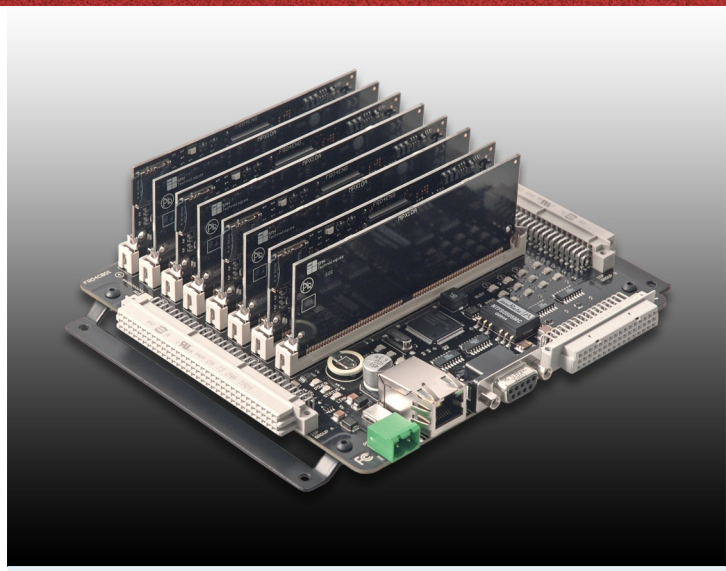
3 In-System Programmer

4 FlashRunner Quattro

FlashRunner Quattro Series

True Parallel In-System Programmers

- **Four fully parallel in-system programming channels**
- **Channel demultiplexing: each of the four main channels can be demultiplexed to 2 or 4 ISP channels (for a total of 8 or16 ISP channels, respectively)**
- **Easy integration in all ATE systems**
- **Galvanic isolation (on the 8 ISP channels configuration)**
- **Controllable by a host PC or ATE through RS-232, Ethernet or parallel control lines**



FlashRunner Quattro is a high-integration in-system gang programmer, based on the FlashRunner patented technology. FlashRunner Quattro is designed for programming multi-PCB panel assemblies, and is based on the FlashRunner technology. This means:

- Extremely fast programming (FlashRunner is one of the fastest in-system programming system on the market);
- Standalone operations (projects and code images stored on memory cards);
- Compact and robust design for production environments.

FlashRunner Quattro is composed of a mainboard which hosts the programming and demultiplexing modules, plus various connectors used to interface to the target system and host/ATE. FlashRunner Quattro is available in three different models, to best suit different gang programming needs:

- 4 ISP channels system (4 true parallel channels), no ISP channel demultiplexing;
- 8 ISP channels system (4 parallel channels, each demultiplexable to 2 channels, with galvanic isolation);
- 16 ISP channels system (4 parallel channels, each demultiplexable to 4 channels).

In all of the above configurations, each of the ISP channels is composed of:

- Six digital, bidirectional lines;
- Two analog/digital lines (analog out, digital in/out);
- Two power lines;
- One ground line (common for all channels).

Order Codes

FR04A04 FlashRunner Quattro, In-System Standalone Gang Programmer (4 Channels)

FR04A08 FlashRunner Quattro, In-System Standalone Gang Programmer (8 Channels)

FR04A16 FlashRunner Quattro, In-System Standalone Gang Programmer (16 Channels)

Supported Manufacturers

Technical Specifications

- Power supply: 9-18V DC
- Dimensions: 165 x 155 x 55 mm
- Driven through parallel control lines or ASCII commands (through RS-232 or Ethernet port)

ISP Lines
- 6 Analog Lines (0-5.5V DC)
- 2 Analog Lines (0-14.5V DC)
- 2 Programmable Power Lines (1.6-5.5V DC, 3.0-14.5V DC)

Switching Technology
- FR04A08: Reed Relay Switching
- FR04A16: CMOS/Reed Relay Switching

Connectors
- ISP Channels: Two 96-Way Female
- Parallel Control Lines: 48-Way Female
- RS-232: 9-Way D-Sub Female
- LAN: RJ-45
- Power: Terminal Block, pitch = 2.54 mm

SMH Technologies™

SMH Technologies S.r.l.
via Giovanni Agnelli, 1
33083 Villotta di Chions (PN) Italy
Phone +39 0434 421 111
Fax +39 0434 639 021
Web www.smh-tech.com
E-mail info@smh-tech.com

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