



Supporting Cutting-Edge Technology

ProLINE
RoadRunner

For Siemens SIPLACE X-Series Machines

With

FlashCORE III



There is no faster, better value Automated Programming Solution for programming files of any size.

ProLINE-RoadRunner™ Programming System

ProLINE-RoadRunner™ is an in-line high-speed Flash programming system that mounts directly onto SIPLACE X SMT machines without consuming additional floor space or altering the production line.

Process Control Software (TaskLink™) is installed off-line on a secured personal computer. A system administrator uses TaskLink to create and secure programming Jobs. Completed Jobs are saved to a PC-card then transferred to a ProLINE-RoadRunner to run a specific Job or the job is transferred via the Ethernet.

Built-in Diagnostics and Job Statistics are written back to the PC-card at the end of the production run. Statistics can be saved back to TaskLink for analyzing performance results to assist in optimizing production yields and throughput.

Expanded Programming Capacity as needed by simply installing a second RoadRunner onto the same placement machine on the same production line. This is ideal for newer products using higher-density Flash devices, or to further reduce cycle times required with increased capacity demands. Both alternatives require no additional floor space.

WHETHER YOU CURRENTLY OUTSOURCE DEVICE PROGRAMMING OR PROGRAM IN-LINE AT TEST, ProLINE-RoadRunner OFFERS SUBSTANTIAL BENEFITS

Key Benefits

Benefits of moving from *outsourcing* or *offline* to in-line device programming, using ProLINE-RoadRunner

- Simplify inventory management
- Less material handling
- Just-in-time programming
- Supply chain efficiencies
- Lean Manufacturing
- Improve time-to-market
- Immediate response to code-changes
- Higher manufacturing profits

Benefits of moving from *programming-at-test* to programming-at-placement, using ProLINE-RoadRunner

- Reduce programmer/test time
- Optimize test (Expand Coverage)
- Reduce number of testers
- Optimize floor space
- Balance the production line
- Place only verified devices
- Reduce board scrap costs
- Higher throughput at lower cost
- Fast code changes using TaskLink
- Higher manufacturing profits



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Specifications

Physical Size and Weight

- Length without reel mounted: 1093 mm (43.03 in)
- Length with reel mounted: 1234 mm (48.58 in)*
- Width: 78 mm (3.07 in)
- Height without reel: 482 mm (18.98 in)
- Height with reel: 494 mm (19.45 in)
- Weight with adapter: 19 kg (41.5 lbs)
* includes SMT adapter

Tape-In Options

- 16 - 32mm fully adjustable
- Reel size 32mm tape x 13 in diameter max

Device Support

The ProLINE-RoadRunner supports a wide range of microcontroller, memory and NAND Flash devices.

Maximum package geometries up to (L)15 mm x (W)21.65 mm x (H)3 mm

Regulatory Compliance

- CE
- OSHA

Changeover Time (New Job Set-up) <15 minutes

- Change reel (13 in. reel diameter)
- Empty cover tape Take-Up Reel
- Change Socket Adapter
- Insert new job card
- Insert carrier tape and align pocket
- *includes tape reconfiguration using adjustable Tape-In module*

Changeover Time (consumables) ~1 minute

- Replace PNP probe tips
- Replace Socket Adapters

Co-planarity Alteration

- Leaded-device co-planarity alteration < 1 mil

Operating Temperature Range

- +15° to +40°C (+60°F to +104°F)
- Operating humidity, non-condensing: 20 to 80%

Requirements

Power Requirements

- AC Input: 100/240 V~, 50/60 HZ (single phase)
- AC input Power: 100 W

Air Requirements

- Regulated Air to RoadRunner: 75 PSI \pm 5 PSI @ 4 SCFM

Personal computer

- PC with PC-card drive running Microsoft Windows 95, 98, NT, or XP. (Windows NT may require the purchase of additional software drivers or a card drive)
- Hard disk space: 25 MB minimum for TaskLink files
- CD ROM drive
- Serial or bus mouse
- Memory card drive
- VGA monitor with 640 x 480 (minimum resolution)

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