

Race100 Gang Programmer
"To Reduce significantly your Serial Flash programming cost!"



Race100 is a professional Gang Programmer dedicated and optimized for the Serial Flash memories. With the highest performance in the market and the highest con-current socket number, it offers the lowest possible programming cost you could find in the market. The programming time is in average **8 times faster** than the Universal programmers. The number of con-current sockets is **5 times more**. Together with the highest performance and the highest con-current socket number, Race 100 increases finally your **Throughput capability by 40** with the same investment.

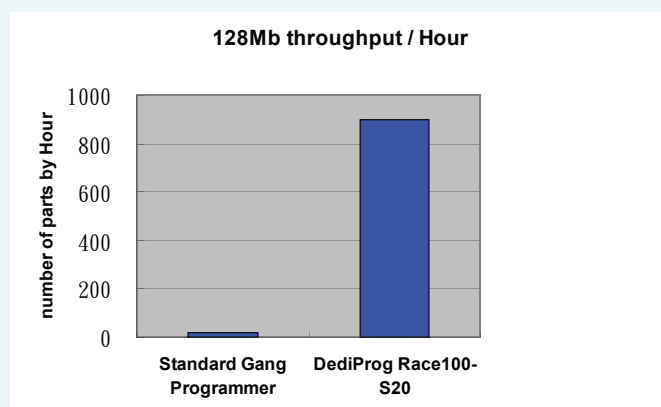
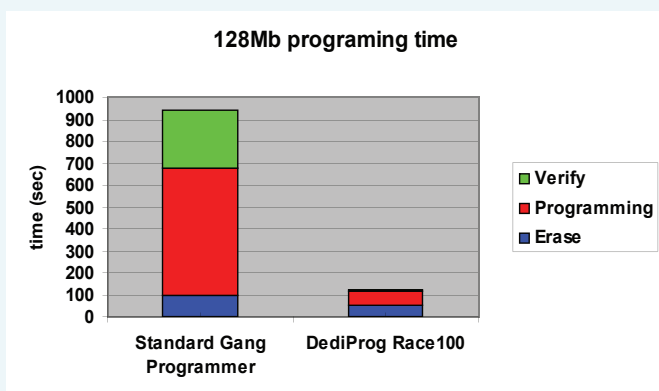
If you have significant volume of Serial Flash to be programmed, the Race100 is your solution. The Cost saving could be up to: 20cents USD per each memory programmed!

Table 1: Race100 performances:

Serial Flash densities	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb	128Mb
Program + Verify	0.6s	1s	2s	3s	8s	15s	16s	75s

Note: The tested memories are from a single serial flash manufacturer. All measurements are performed with full address and programmed in random pattern.

Fig1: Comparison of performances with a Standard Gang Programmer



Features

- **Stand Alone mode:** controlled by keyboard and wide LCD display.
- **Easy to use:** Define on computer and Load projects (Image and operations) to SD card. Operators only have to insert the SD card in the Race100 and select the project to be used. Race100 will run the project in Stand Alone mode (no need of computer).
- **Three advanced Working modes:**
 - **“Manual Start” Mode:** Sockets of the same cartridge work as a group. Operator has to press the “Start Button” of the Cartridge to start the operations on all the sockets. This mode reduces the risk of operator manual the working the working sockets.
 - **“Auto Socket Start” Mode:** Each socket works independently, detects automatically the memory when inserted and start the operations instantly according to the project definition. This mode ensures the best throughput.
 - **“Auto Cartridge Start” Mode:** Auto start when the 4 sockets of a cartridge are all filled with Serial flash memories.
- **Production information in Real time:** on Gang LCD display or PC monitor
- **Best programming Quality and Reliability:** ESD and over current protection, wrong insertion detection, self diagnostic etc. ensure the best signals quality and reliability.

Software

File Type supported: binary, hex, Motorola

Features: data editor, revision history, device and algorithm information, project setting, review/reset socket counter history, project history display and save to a file, standalone mode project configuration :load the image file with Checksum and define the operations on memory (*all combination between: Blank Check, Erase, Program, Verify, Vpp support, protection*)

Standalone mode

Device Operation: operate the pre-configured operation setting from the SD card.

Features: *display projects list, select project, display project configurations, file checksum, target serial flash type, select operating mode: Auto or Manual, review/reset socket counter history, etc.*

Hardware

Number of Sockets per Cartridge: 4 sockets each

Number of Cartridges per base system:

- **Race 100-S20:** up to 5 cartridges (total: 20 sockets)
- **Race 100- S8:** up to 2 Cartridges (total: 8 sockets)
- **Race 100- S4:** up to 1 Cartridge (total: 4 sockets)

User Interface: Socket Operation Status on LED (Pass, Working, Error), Keypad control, project management and production information on Gang LCD Display or PC monitor.

Power: AC Voltage 100_240 VAC (50_60 Hz)

Dimensions and Weight: Race 100-S20: Width 50cm x height 7.2cm x depth 30.5cm.
Race 100-S8 & Race100-S4: Width 37cm x height 7.2cm x depth 24.5cm.

Memories Supported: all the Serial Flash (package and families).