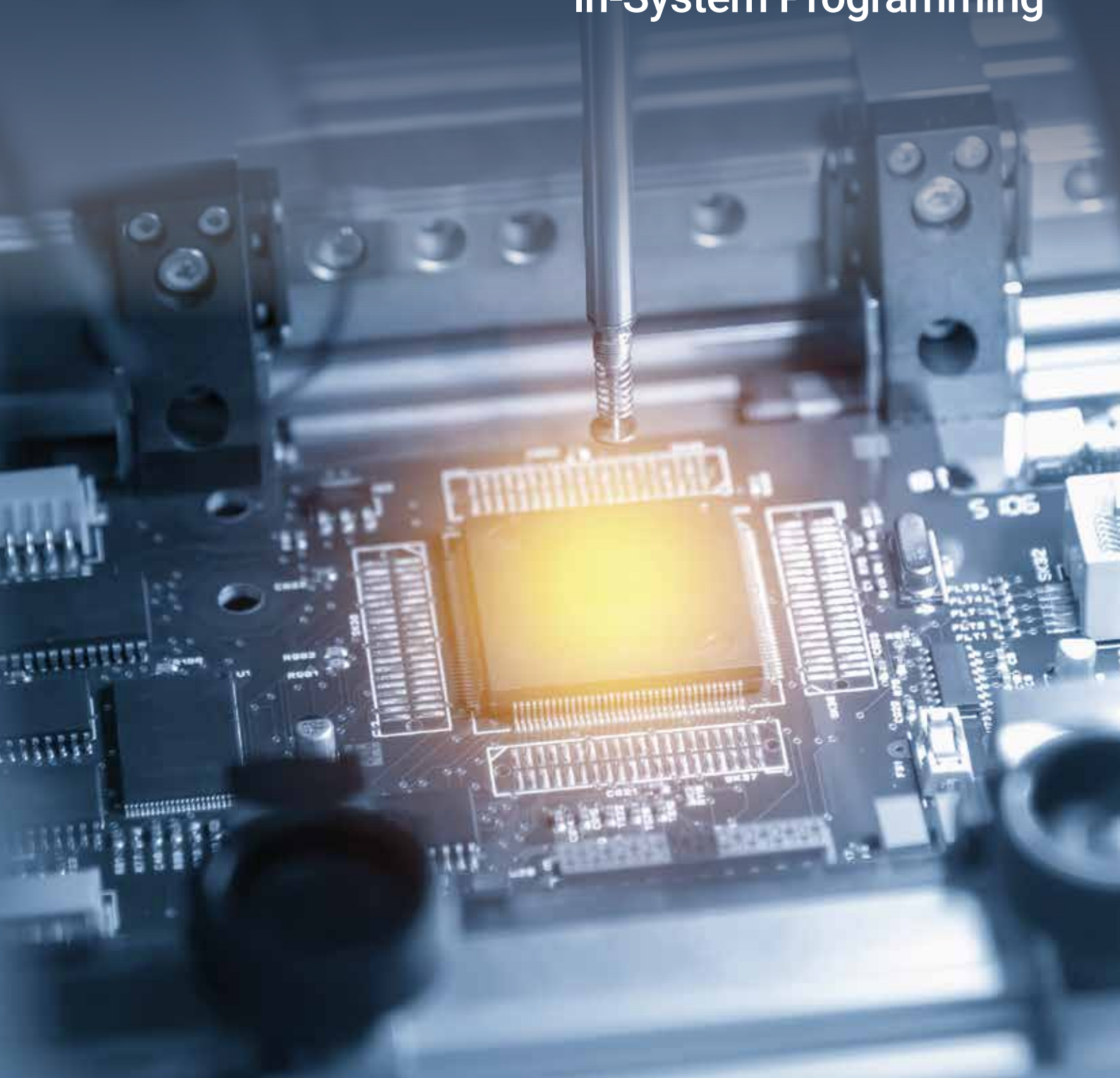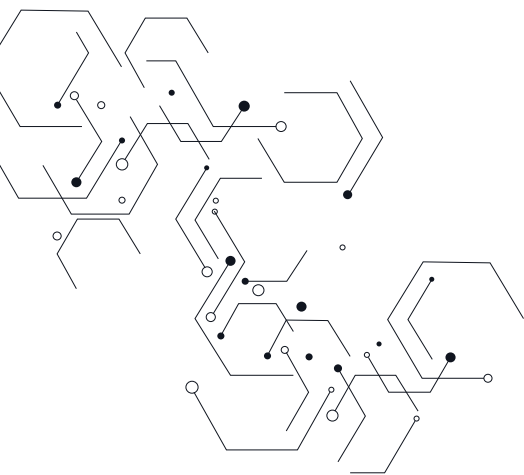# Hydra

**The clever way to
In-System Programming**

Hydra

Hydra universal and industrial E-ISP programmers are the clever solution for an easy integration in any ATE or ICT/FCT fixture. Hydra E-ISP technology allows your system to reach programming speeds as fast as target technology limits. Hydra operates on up to 4 parallel independent targets at a time and can be used 24/7 in the most demanding manufacturing lines, boosting productivity.

Patented system

A clever technology

E-ISP

We invented a new approach and called it E-ISP (Extended In-System-Programming). A compact master unit and a tiny programming unit, communicating through NOVALINK, a proprietary high speed protocol.

HOST — MASTER E-ISP — POD E-ISP — PCB

POD

The system intelligence is located in this tiny programmer.
Data between POD and master unit are exchanged through a proprietary high speed protocol called NOVALINK.
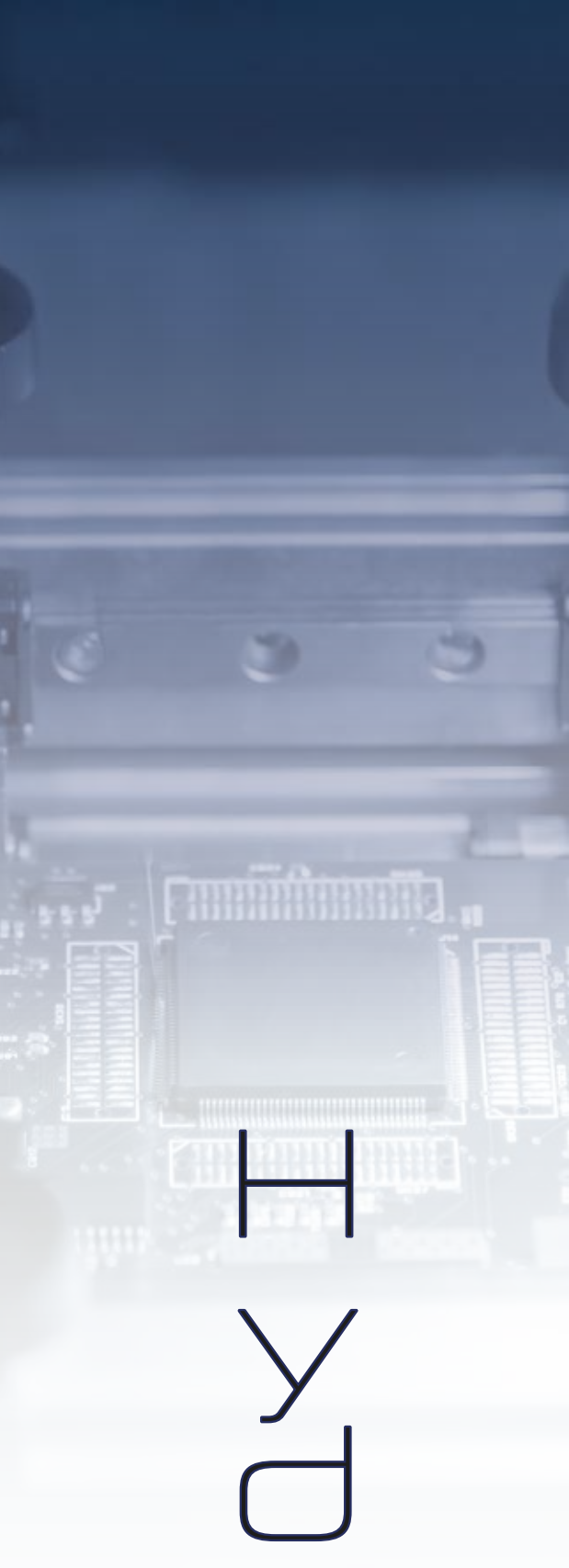
- Extremely tiny size: 65mm x 38mm x 18mm
- Compatible with MCUs, Serial Memories, CPLD via JTAG, SPI, SWD, DAP, I2C, BDM, UART, ICSP, ISSP, SBW, etc. protocols
- Target board supply voltage and current measurements
- Target IO voltage measurement

master

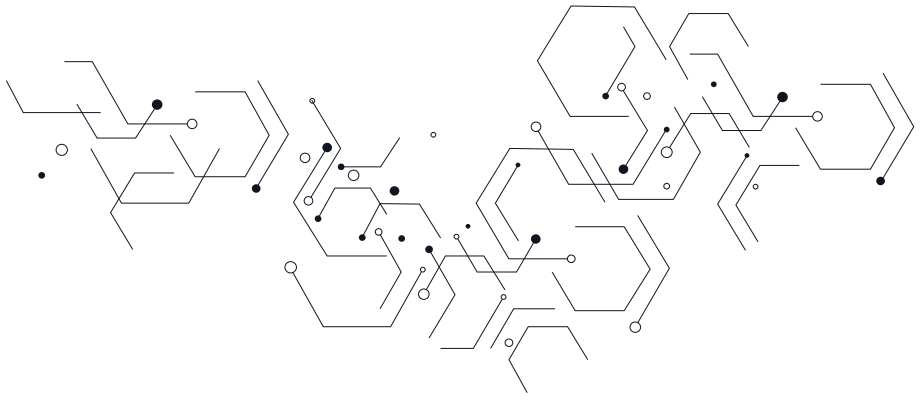The central unit, called MASTER, contains interfaces, connectors and memories.

- Host Interface: 1Gbps LAN, isolated RS232
- Standalone mode with isolated Automatic Test Equipment (ATE) interface
- Up to 4 independent and true parallel channels
- Novalink transfer rate (Master - POD): 1Gbps
- Real Time clock for log tracking

software

Hydra system includes user friendly host interface. Through the PC software you will be able to create a project with customized programming parameters.

.
- High accuracy errors description
- IP protection and data cryptography
- Variable data management for serial numbering programming
- Webserver for remote control
- Programming drivers updated for supporting new devices
- DLL for an easy integration with any programming language under Windows OS

Clever benefits

EASY TO INTEGRATE
The best choice for all those who have to integrate the ISP feature in a fixture or ATE

FLEXIBLE
Hydra can program multiple devices at a time, through multiple pods connected to the same master.

UNIVERSAL
Compatible with the devices available in the market, regardless of the manufacturer.

SPEED AND SAVING
Significant savings for end users thanks to cutting-edge performance and reduced programming time.

Hydra

ROMEX

Autoweg 26
3911 TK Rhenen
The Netherlands
Phone +31-(0)317 398 787
Info@Romex.nl www.Romex.nl

ESD Solutions
Cleanroom Products
Soldering Equipment
Test & Measurement