COME TO KNOW BARTH®

and easily automate with lococube®

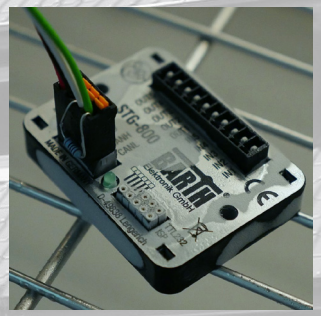
BARTH®
Elektronik GmbH

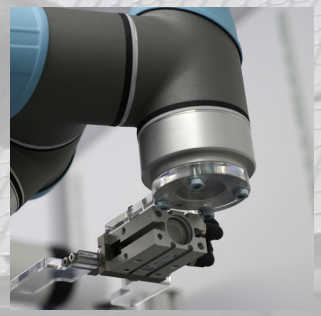
BARTH® ELEKTRONIK GMBH

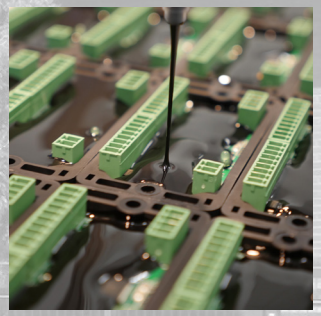
- 25 years BARTH®, owner-managed since 1993
- 25 years of PLC Engineering Know-How
- Manufacturer of popular lococube® Products
- Production of customer-tailored PLCs
- In-House Engineering and Production
- High Automation Grade / Robotics
- Honored with the RS Global Supplier Award
- Internal Quality and Document Management
- Own Test Lab for Climate, Temperature and Vibration
- KBA certified (ECE R10)
- UL certified (cULus)
- Export Rate above 55%

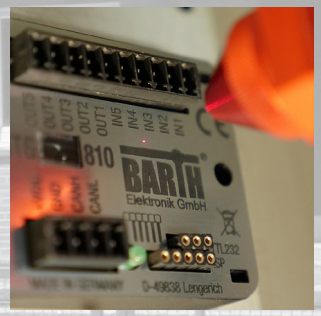
25th anniversary

BARTH® Elektronik GmbH





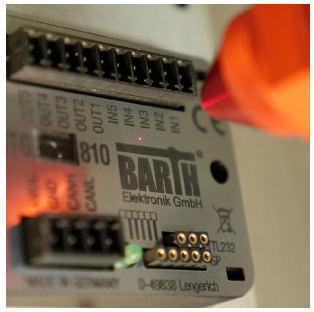


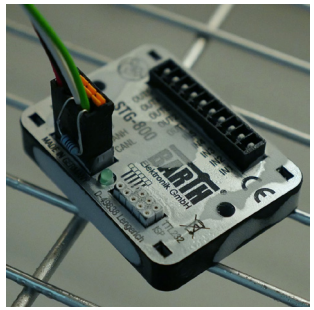


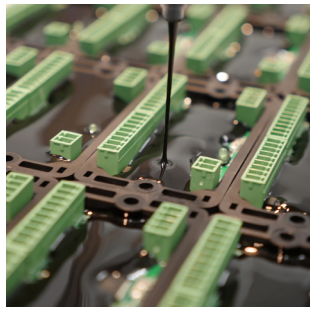
OUR MAIN PRODUCT - LOCOCUBE®

- SPS (German) = Speicherprogrammierbare Steuerung
- PLC (English) = Programmable Logic Controller
- lococube® = Logic Controller Cube

- lococube® is a full-featured Open Source PLC Range
- The totally potted design leads to encanced Ruggedness
- It´s Core is powered by a 32 Bit ARM® Cortex® CPU
- lococube® supports graphical, ‚C‘ and Arduino® Programming
- The low Power Consumption allows battery-powered Applications
- Features well-established CAN and CANopen® Interfaces
- Resists Operating Temperatures from -40 up to +70 °C
- Directly drives Loads with it´s rugged Solid-State Outputs
- Integrates Protection Circuits for all I/Os

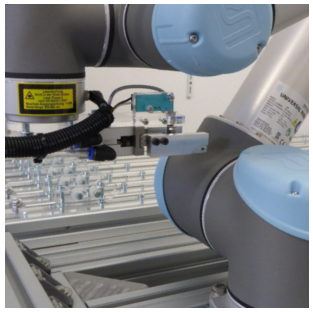


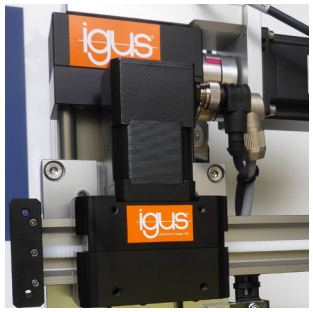


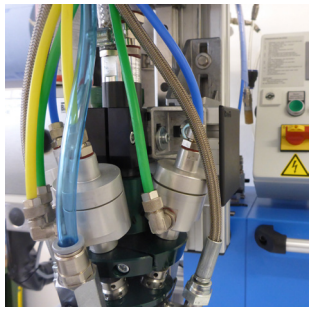


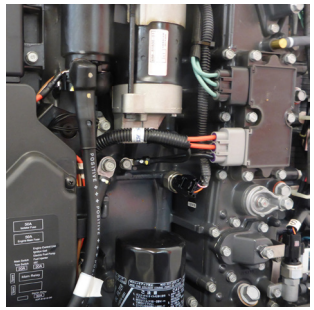
LOCOCUBE® APPLICATIONS

- **Automation & IoT:**
  Automate and control your Product sharing operational Data via CAN(open)® and WLAN
- **Motion & Control:**
  Realize Stepper, BLDC and Servo Driver Applications featuring CAN/CANopen® Connectivity
- **Automotive and Marine Technology:**
  ECUs and OEM Solutions basing on lococube® Technology for Engine and Convenience/Body Control via CAN and J1939 Interfaces
- **Lab and Test Engineering:**
  PLC-aided Product Test and Quality assurance
- **Collaborative Robotics:**
  adaptive Gripper Solutions using CAN(open)®
- **Mobile Applications / E-Mobility:**
  The ultra-low Current Consumption allows Integration in battery-powered Appliations



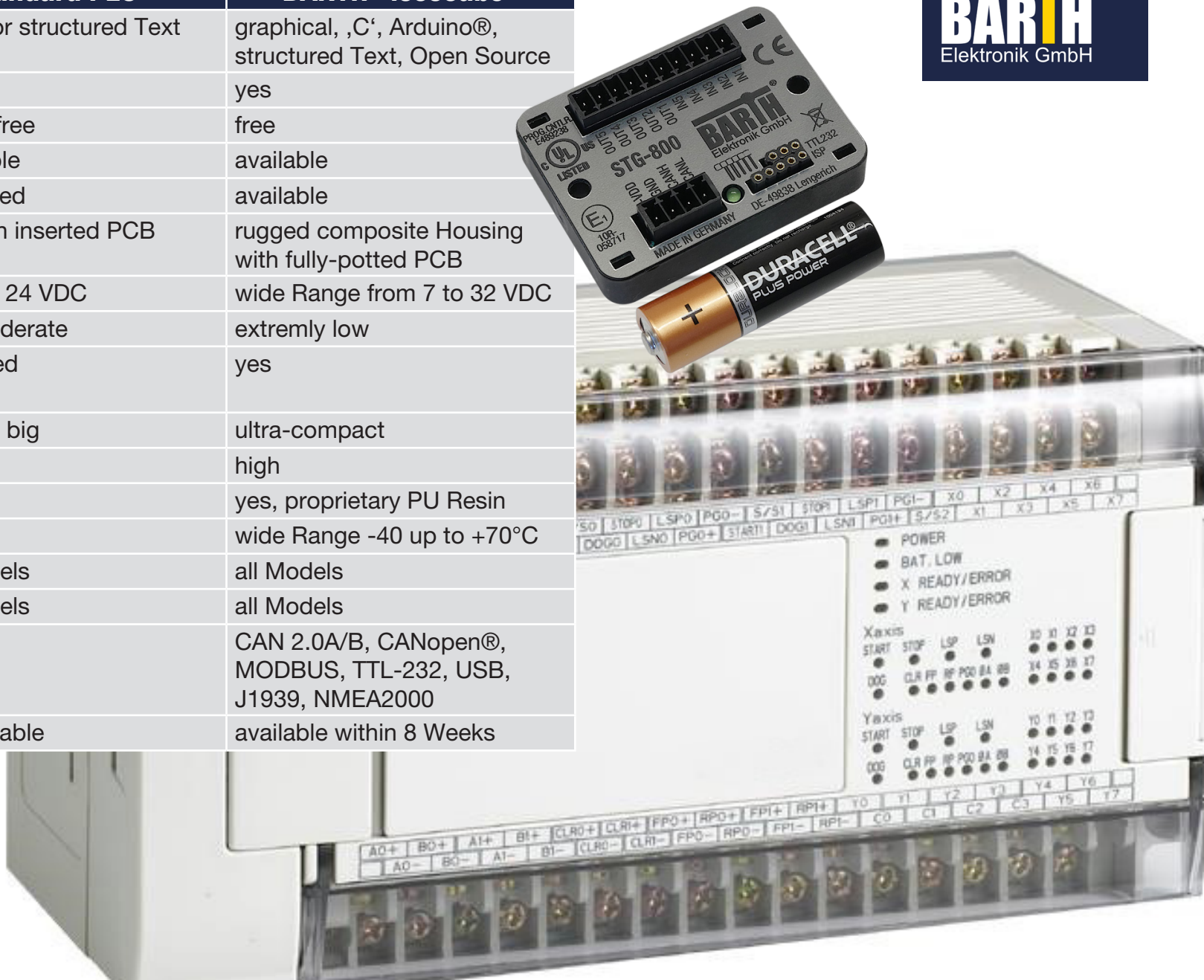






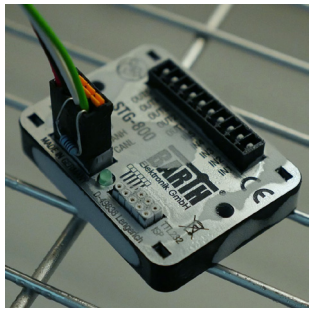
COMPARISON

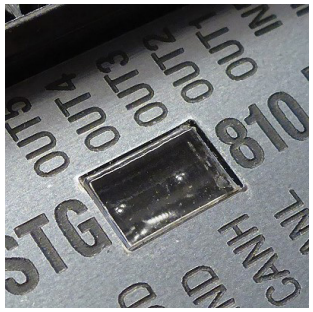
	Standard PLC	BARTH® lococube®
Programming	graphical or structured Text	graphical, ‚C', Arduino®, structured Text, Open Source
Open Source Concept	no	yes
Software	charged / free	free
Online-Mode	not available	available
Online-Visualization	not or limited	available
Housing	Plastic with inserted PCB	rugged composite Housing with fully-potted PCB
Operation Voltage	fixed 12 or 24 VDC	wide Range from 7 to 32 VDC
Current Consumption	high to moderate	extremly low
Battery-powered Operation	no or limited	yes
Dimensions	medium to big	ultra-compact
Shock Resistance	low	high
Potting	no	yes, proprietary PU Resin
Operation Temperature	limited	wide Range -40 up to +70°C
Solid-State Outputs	some Models	all Models
HMI, Motion & Control	some Models	all Models
Interfaces	different	CAN 2.0A/B, CANopen®, MODBUS, TTL-232, USB, J1939, NMEA2000
OEM-Solutions	rarely available	available within 8 Weeks

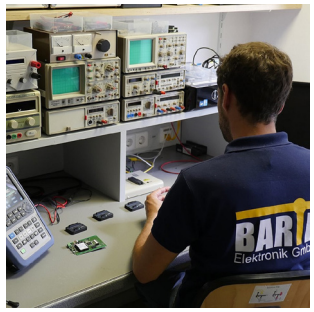


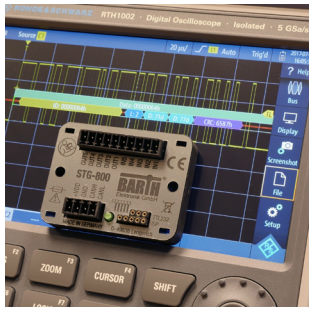
WHY BARTH® LOCOCUBE®

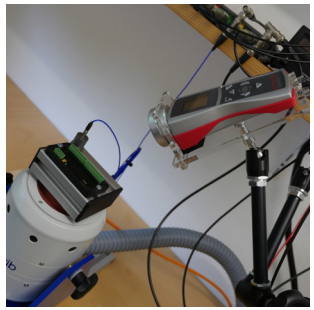
- One of the smallest PLC worldwide
- Tough, rugged and potted
- Powerful 32 Bit ARM® Cortex® CPU
- Industrial and automotive Use
- Suitable for harsh Environments
- Shortest Time-to-Market
- Free Software and Tools
- Long Term Availability
- Worldwide available via RS and Allied
- 25 Years of Technology Experience
- Engineered and manufactured in Germany

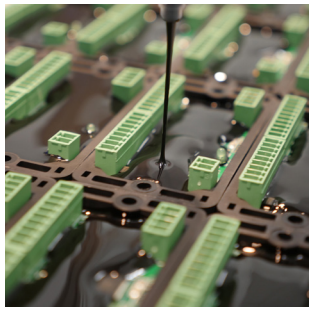












OUR CUSTOMERS

- Process Industries
- Building and Construction
- Electronic Manufacturing
- OEM´s and Manufacturing Services
- Automotive and Marine
- Metals and Metal Production
- Prototyping
- Facilities Management
- Intralogistics
- Communications
- Transportation
- Mining and Quarring

LINKS AND SUPPORT

- Distributor worldwide: www.rs-online.com
- Distributor USA/Kanada: www.alliedelec.com
- DesignSpark: www.rs-online.com/designspark
- Support Forum: www.micon-l.de
- Manufacturer Hardware: www.barth-elektronik.de
- Manufacturer Software: www.pro-sign.de
- Programming Partner: www.barth.jasys.de
- Videos and Tutorials: www.youtube.de