



BIXCS-140 Series Open Automation Controller

Specification

Power Supply	Power In DC 9-36V, consumption 3W Connection via Twist-Lock cable with open end
Operation at	Ambient Temperature - 40...+85 °C without condensation
Housing	Aluminum powder coated WxHxD 30 x 110 x 170 mm DIN-RAIL mounting
Cooling	Fanless convection cooling via housing
Processor	NXP iMX8M ARM Cortex A53 1,8 GHz Coprozessor Cortex M4 200MH
Memory	RAM up to 4GB
Storage	eMMC up to 64GB
Console	USB to RS232 on micro-USB
Basic Interfaces Network Serial USB	2x Gbit Ethernet on RJ45 1x RS232/485 on Terminal Block 3x USB2.0 on Type-A
IO-Slots Slot A Slot B Slot C	none / CAN / RS232 / RS485 / AI4-20 / TPM none / CAN / RS232 / RS485 / AI4-20 none / 4DI-4DO DC24V
Wireless Slot 1 Slot 2	none / WiFi 802.11ax, Bluetooth none / LTE CAT1 SIM-7600
RTC	yes, buffered via coin cell battery
Options	<ul style="list-style-type: none">- Housing options for wall- / VESA mounting- Extended / Industrial Temperature up to -40 ...+ 85 °C- Customized IO boards- Customized Firmware Extensions
Operating System	BIXCS-OS (Linux Debian 64-bit and Docker)



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Certificates	CE, FCC, UKCA
MTTF	> 200.000 h
ESD	EN 55032/5, EN 61000-6-2, EN 61000-6-3
Safety	EN/UL/IEC 62368-1
Programmable Logic Controller <ul style="list-style-type: none">- CPUs- Nr POU's up to- POU size up to- Nr FB instances up to- IO channels- Min PLC task- Jitter	1-8 cores 32.000 64 kByte 65.530 unlimitiert 10 ms <= +/- 1 ms
Webserver	Gunicorn, programmable by Python and Flask Framework
Fieldbus <ul style="list-style-type: none">- on RS232/485- on LAN2- internal	Modbus RTU Master and / or Slave Modbus TCP Master and / or Slave Modbus TCP Master and / or Slave
PLC- Programming, Test and Commissioning	via external Windows PC and STRATON Toolbox



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BIXCS-140 series Isometrie



BIXCS-140 series Interfaces