

|   |                      |                         |                              |                     |                       |                              |
|---|----------------------|-------------------------|------------------------------|---------------------|-----------------------|------------------------------|
| + 70 °C<br>- 40 °C  | RTC +<br>BATTERY     | Twist-Lock<br>DC 10-24V | PoE<br>DEVICE MODE           | ARM A7<br>2C 1GHz   | Cortex M4<br>200 MHz  | HDMI<br>1x DVI               |
| IEC 61131-3<br>2x PLC   |                      |                         |                              |                     |                       | MODBUS RTU<br>MASTER + SLAVE |
| WSGI<br>HTTP-Server   |                      |                         |                              |                     |                       | MODBUS TCP<br>MASTER + SLAVE |
| WiFi<br>802.11 bgn  | Bluetooth<br>4.1 BLE | RJ 45<br>2x LAN         | Type A<br>4x USB 2.0         | RJ 11<br>1x CAN-BUS | micro-USB<br>Console  | IO-Header<br>GPIO            |
| BIXCS - 1322<br>Smart Automation Controller<br>110 x 25 x 85 mm |                      |                         | Aluminium<br>Passive Cooling | Warranty<br>5 years | Lifecycle end<br>2033 |                              |

|  |   |
|--|---|
| <b>Operation</b> <ul style="list-style-type: none"><li>Ambient Temperature</li><li>Rel. Humidity</li></ul> | -40 ... +70 °C<br>10-90%                              |
| <b>Store</b> <ul style="list-style-type: none"><li>Ambient Temperature</li><li>Rel. Humidity</li></ul>     | -40 ... 85°C<br>10-90%                                |
| <b>Certificates</b>  | CE, FCC   |
| <b>Power Supply</b> <ul style="list-style-type: none"><li>Input Voltage</li><li>Max consumption</li></ul>  | DC 10-24V<br>20W                                      |
| <b>MTTF</b>  | > 200.000h  |
| <b>Housing</b> <ul style="list-style-type: none"><li>Type</li><li>Size</li><li>Weight</li></ul>            | Aluminum powder coated<br>110 x 25 x 85 mm<br>0,45 kg |
| <b>Cooling</b>   | Passive, fanless                                      |

|  |   |
|--|---|
| <b>CPU</b>   | NXP iMX7<br>ARM Cortex A7 dual core 1,0 GHz und<br>Coprozessor Cortex M4 200MHz |
| <b>Storage</b> <ul style="list-style-type: none"> <li>• RAM</li> <li>• eMMC</li> <li>• SSD</li> <li>• uSD-Slot</li> <li>• SIM-Slot</li> </ul>  | 1 GB<br>16 GB<br>no<br>yes<br>yes   |
| <b>Display</b>   | DVI, Resolution bis 1920 x 1080 Pixel   |
| <b>Audio</b>   | Yes, in / out   |
| <b>Interfaces</b> <ul style="list-style-type: none"> <li>• USB to RS232 Konsole</li> <li>• USB 2.0</li> <li>• RS232</li> <li>• RS485</li> <li>• RS485 with DC24V supply</li> <li>• CAN-bus</li> <li>• LAN</li> <li>• LAN-FO</li> <li>• WLAN</li> <li>• Bluetooth</li> </ul>                                | 1<br>4<br>1<br>0<br>0<br>1<br>2<br>0<br>1<br>1                                  |
|  |   |
| <b>Operating System</b>  | Linux Debian 32-bit realtime  |
| <b>Systemsoftware</b> <ul style="list-style-type: none"> <li>• PLC</li> <li>• Modbus TCP Master</li> <li>• Modbus TCP Slave</li> <li>• Modbus RTU Master</li> <li>• Modbus RTU Slave</li> <li>• Webserver</li> <li>• Database Client</li> <li>• Database Server</li> <li>• HMI</li> <li>• Batch</li> </ul> | yes, 2 cores<br>yes<br>yes<br>yes<br>yes<br>yes<br>no<br>no<br>no<br>no         |
| <b>Allowed Optionen</b> <ul style="list-style-type: none"> <li>• PLC Redundancy</li> <li>• OPC-UA Server</li> <li>• Messenger Threema</li> </ul>   | yes<br>yes<br>yes   |
|  |   |
| <b>PLC core</b> <ul style="list-style-type: none"> <li>• Nr of POU</li> <li>• Max Size POU</li> </ul>  | 32.000<br>64 kByte  |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• <b>Nr FB-Instances</b></li> <li>• <b>Nr database connections</b></li> <li>• <b>IO-Channels</b></li> <li>• <b>Min Task</b></li> <li>• <b>Typ. Jitter</b></li> </ul> | <p>65.530<br/>2<br/>unlimited<br/>10 ms<br/>+/- 1ms</p> |
| <b>Webserver</b>  | Python WSGI HTTP Server                                 |
| <b>Database Server Type</b>   | --  |
| <b>Interfaces to Linux App's</b> <ul style="list-style-type: none"> <li>• <b>Modbus TCP</b></li> <li>• <b>Shared Memory</b></li> </ul>  | <p>yes<br/>yes</p>                                      |
| <b>Linux Supported Program Languages</b> <ul style="list-style-type: none"> <li>• <b>Python</b></li> <li>• <b>ANSI C</b></li> </ul>   | <p>yes<br/>yes</p>                                      |