

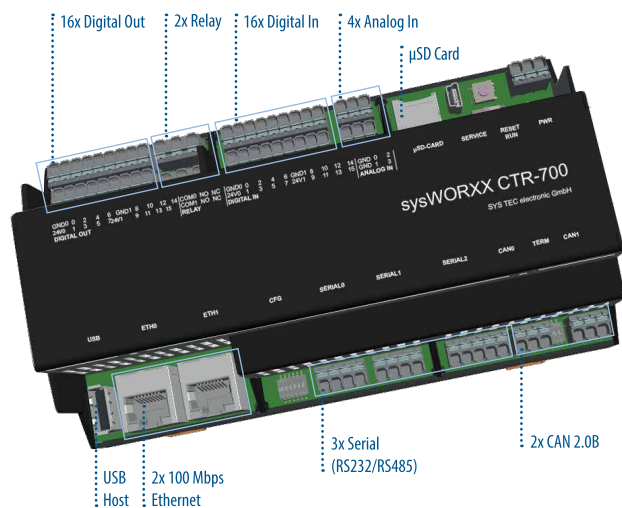
# TECHNICAL FACTS <sup>\*</sup>

## FEATURES

- Mountable on DIN rail
- NXP i.MX7 / Dual Cortex-A7
- 1024 MB RAM, 8GB eMMC
- Interfaces: digital & analog I/Os, TCP/IP, MQTT, Modbus, CANopen, USB, µSD
- Programmable in IEC 61131-3 and IoT languages

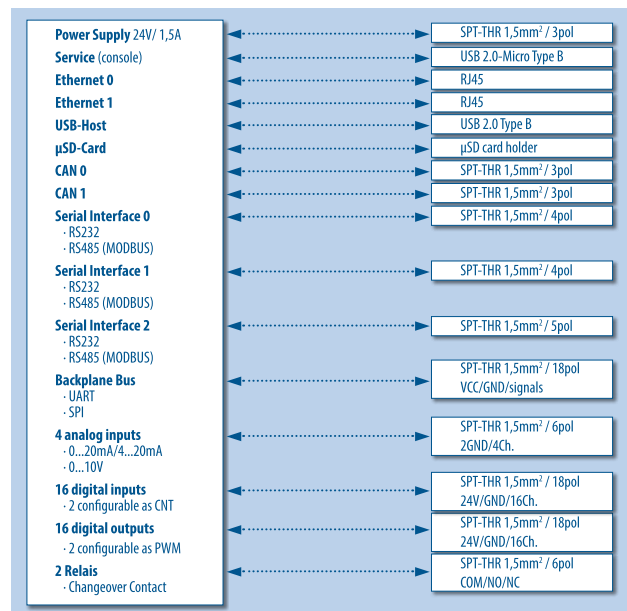
## INTERFACES

via digital & analog I/Os



## BLOCK DIAGRAM

sysWORXX CTR-700



## PROGRAMMING

via IEC 61131-3 & IoT languages

### SYSTEM SOFTWARE

Operating System	Linux / Debian
PLC Runtime	OpenPCS – IEC 61131-3
Wiring Editor	Node-RED
Further Programming Languages	C#, C/C++

### COMMUNICATION PROTOCOLS

IoT Data Protocols	OPC-UA, MQTT
Fieldbus Protocols	CANopen, CAN Layer 2, Modbus & more
Mesh Network	Wirepas via Extension Module

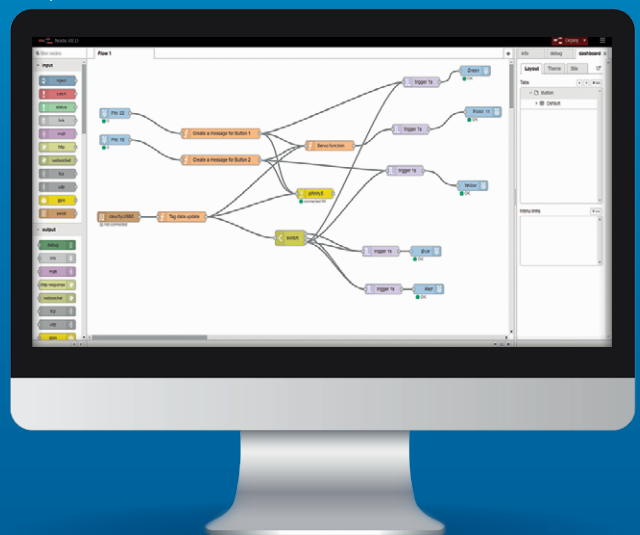
### VISUALISATION

Standard for PLC	SpiderControl / IniNet (commercial license)
Alternative Visualisation	Node-RED (free license)

### REMOTE ACCESS

System Services	SSH / Telnet, SFTP / FTP, HTTPD
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Example for Visualisation in Node-RED



# TECHNICAL FACTS \*

## FUNCTIONAL REQUIREMENTS

### PHYSICAL

Size ( <i>height,width,depth</i> )	60 x 162 x 91 mm
Temperature	0°...55° C

### CPU

Processor	NXP i.MX 7
Processor core	Dual Cortex-A7
MPU speed (MHz)	1000
MIPS	3800
RTC	Yes
Temp.-Sensor	Yes

### MEMORY

RAM	1024 MB
Storage	8GB eMMC

### CONNECTIVITY

ETH	2 ( <i>Secure separation of IT &amp; OT</i> )
CAN	2 ( <i>CANopen, CAN Layer 2</i> )
SIO	3 ( <i>RS485 Modbus; RS232 freely available</i> )
USB Host	1
SD Card	1
Linux console	1 ( <i>Version as USB or RS232</i> )

### I/O INTERFACES

DI 24VDC	16 ( <i>data galvanically decoupled</i> )
A/B Encoder	2 ( <i>alternate functions – depending on used A/B-Encoder</i> )
Highspeed Counter	4 ( <i>alternate functions – depending on used Highspeed Counter</i> )
DO 24VDC, 0.5 A	16
PWM	2 ( <i>alternate functions – depending on used PWM channel</i> )
Relais 230VAC, 1 A	2
AI	4 ( <i>configurable: 0...10VDC; 0...20mA / 4...20mA</i> )

### CONTROLS

Switch	Run-/Stop Config Reset Boot Power CPU Power periphery Run Error & more
Status LEDs	

\* Subject to change without notice

**SYS TEC**  
ELECTRONIC