



## X2 base 7 - F2 I/O00A

### 7" HMI with iX runtime and IOs

800 × 480 pixel (16:9) TFT-LCD touch screen  
 Built-in digital and analog IOs  
 200 MB application memory  
 1 × Ethernet, 4 × serial, 1 × USB as standard  
 Operating temperature -10° to +50° C  
 CE, FCC

## Facts

### General description

Part number	630020105
Life cycle status	Mature
Warranty	2 year

### Certifications

General	CE, FCC
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### Mechanical

Mechanical size	196 x 146 x 84mm
Mounting option	Panel Mount
Number of touches	1 million finger touch operations
Touch type	Resistive
Cut-out size	186 x 136mm
Weight	0,9 kg
Housing material	Plastic (PC+ABS), Gray
Buzzer	Yes
LED	Yes

### Power

Input voltage	24 V DC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for class II power supplies.
Power consumption (max)	9,6W
Input fuse	Internal DC fuse

### System

CPU	ARM9 400 MHz
RAM	128 MB
FLASH	256 MB, 200 MB free

### Display

Size diagonal	7" diagonal
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	20000 hours
Backlight brightness	400 cd/m2
Backlight dimming	Industrial Dimming
Display type	TFT-LCD with LED backlight

### Digital IO

Digital input	8 inputs, 24 VDC at 5.6mA (0.13W per input)
Configuration	2 isolated, independent groups with 4 inputs per group. Each group shares one common contact. Supports sink/source mode for each group.
Type	IEC 61132-2 Type I
Isolation	550 VAC, 1min
Digital output	6 outputs, 30 VDC, 3A max
Configuration	3 isolated, independent groups with 2 outputs per group. Each group shares one common contact.
Type	Relays (contact configuration: SPST-NO)
Isolation	550 VAC, 1min

### Analog IO

Analog input channels	4
Input type	0-10V or 4-20mA
Input impedance	According to EN 61131-2
Galvanic isolation	No
Resolution	14 Bit (0-10V: 0...16383 / 4-20mA: 3277...16383)
Conversion time	100ms per channel
Accuracy	0.3%
Analog output channels	2
Output type	0-10V or 4-20mA
Output impedance	According to EN 61131-2
Galvanic isolation	No
Resolution	14 Bit (0-10V: 0...16383/4-20mA: 3277...16383)
Conversion time	100ms
Accuracy	0.3%

### Serial communication

Number of serial ports	2 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS 232
Serial port 4	RS 485

### Ethernet communication

Number of Ethernet ports	1
Ethernet port 1	1x10/100 Base-T (shielded RJ45)

### Expansion interface

Expansion port	No
SD card	No
USB	1xUSB 2.0 400mA

### Environmental

Operating temperature	-10°C to +50°C
Storage temperature	-20° to +60°C
Shock	15g, half-sine, 11ms according to IEC60068-2-27
Vibration	1g, according to IEC 60068-2-6, Test Fc
Sealing front	IP65
Sealing back	IP20
Humidity	5% – 85% non-condensed

