

**TX700 HMI/PLC Series**  
**15" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Glass Front with a Capacitive Touch**  
**TX715-P3CV01**



- 15" TFT wide screen color display
- LED backlight
- 1366x768 pixel resolution
- 16 M colors
- Capacitive touchscreen with glass front
- 1 RJ45 Ethernet port with 10/100/1000 Mbit
- 2 RJ45 Ethernet ports with 10/100 Mbit
- 1 serial interface (RS232, RS485, RS422)
- 2 USB host ports
- 1 SD card slot

|                              |  |
|------------------------------|--|
| <b>Type designation</b>      | TX715-P3CV01   |
| Ident no.                    | 100002032  |
| <b>Display / Touch</b>       |  |
| Display                      | TFT colour   |
| Touch                        | Capacitive   |
| Active screen area           | 15.6"  |
| Resolution (pixels)          | 1366x768 HD  |
| Format                       | 16:9   |
| Brightness                   | 400 Cd/m <sup>2</sup> typ.   |
| Dimmable                     | yes  |
| <b>Controller</b>            |  |
| Processor                    | ARM Cortex A9, Quad-core 800 MHz   |
| Memory                       | 8192 MB  |
| RAM memory                   | 2048 MB  |
| Add-on memory                | 1x SD card slot, 2 USB host ports  |
| Real time clock              | yes (battery-backed)   |
| <b>PLC data</b>              |  |
| Programming                  | CODESYS V3   |
| Released for CODESYS version | V 3.5.12.10  |
| Programming languages        | IEC 61131-3 (IL, LD, FBD, SFC, ST)   |
| Programming interface        | Ethernet   |
| Program memory               | 20000 kByte  |
| Non-volatile memory          | 64 kByte   |
| <b>Interfaces</b>            |  |
| Onboard                      | 3 × RJ45 Ethernet, 1 × RS232/485/422, 2 × USB host, 1 × power supply, 2 × expansion slot   |
| Onboard for selection        | CANopen Master (via extension module)  |
| Ethernet                     | ETH0 - 10/100/1000 Mbit<br>ETH1 - 10/100 Mbit<br>ETH2 - 10/100 Mbit                        |
| Protocols                    | PROFINET (Controller/Master)<br>EtherNet/IP™ (Scanner/Master)<br>Modbus TCP (Master/Slave) |
| Fieldbus                     | Modbus RTU (Master/Slave)<br>CANopen (Master)  |
| USB                          | 2x Host Ports  |
| Serial                       | RS232 / RS485 / RS422  |
| Expansion slot               | 2 x plug-in  |
| <b>Power supply</b>          |  |
| Rated value                  | 24 VDC, max. 1.2 A   |
| Admissible voltage range     | 10...32VDC   |

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**General data**

|                              |   |
|------------------------------|---|
| Operating ambient conditions | -20...60 °C, 5...85 % relative humidity, non-condensing |
| Storage ambient conditions   | -20...70 °C, 5...85 % rel. humidity, non-condensing     |
| Approvals                    | CE<br>RoHS<br>cULus                                     |
| Protection class             | IP66 front, IP20 rear                                   |

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**Dimensions**

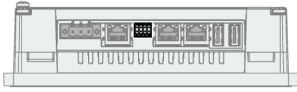
|                   |                |
|-------------------|----------------|
| Front (W x H x D) | 422x267x56mm   |
| Cut-out (W x H)   | 411x256mm      |
| Mounting depth    | 56+8 mm        |
| Weight            | approx. 4.1 kg |

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Connection and pin assignment

|  |  |                       |
|--|--|-----------------------|
|  | <p><b>Power Supply</b><br/>                 The power supply connector is delivered with each device.</p>  | <p>Pin Assignment</p> |
|  | <p><b>USB Interface</b></p>  | <p>Pin Assignment</p> |
|  | <p><b>Ethernet</b><br/>                 Ethernet ports ETH1 and ETH2 (10/100 Mbit)<br/>                 The Ethernet ports are independent, but can be bridged with ETH0.<br/>                 Ethernet cables (examples):<br/> <b>RJ45 male connector – RJ45 male connector:</b> RJ45S-RJ45S-4414-2M (order number: 6441423)<br/> <b>RJ45 male connector – M12 male connector, 4-pin, D-coded:</b> RSSD-RJ45S-4414-2M (order number: 6441413)<br/> <b>RJ45 male connector – M8 male connector, 4-pin:</b> PSGS4M-RJ45S-4414-2M (order number: 6933005)<br/> <b>RJ45 male connector – M12 female receptacle, 4-pin, D-coded:</b> RJ45-FKSD-4414-2M (order number: 6935282)</p> | <p>Pin Assignment</p> |
|  | <p><b>Ethernet</b><br/>                 Ethernet port ETH0 (10/100/1000 Mbit)</p>  | <p>Pin Assignment</p> |

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**Serial Interface**

The serial interface can be operated either as RS232, RS485 or RS422. The adjacent wiring diagrams show the respective pin assignments.

**Pin Assignment in RS232 Operating Mode**

- 1 = RX
- 2 = TX
- 3 = CTS
- 4 = RTS
- 5 = +5 VDC output
- 6 = GND
- 7 = n.c.
- 8 = shield



**Pin Assignment in RS485 Operating Mode**

- 1 = B- (RX-)
- 2 = A- (TX-)
- 3 = B+ (RX+)
- 4 = A+ (TX+)
- 5 = +5 VDC output
- 6 = GND
- 7 = n.c.
- 8 = shield








**Pin Assignment in RS422 Operating Mode**

- 1 = RX-
- 2 = TX-
- 3 = RX+
- 4 = TX+
- 5 = +5 VDC output
- 6 = GND
- 7 = n.c.
- 8 = shield



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**Accessories**

| Type code  | Ident no. | Description |   |
|------------|-----------|-------------|---|
| TX-IO-XX03 | 6828201   |             |    |
| TX-IO-DX06 | 6828203   |             |    |
| TX-CAN     | 6828210   |             |  |
| TX-RS485   | 100002598 |             |  |
| TX-RS232   | 100002599 |             |  |