# eX700 Series

## The Revolutionary IIoT Controller

**EXOR**

✕

...Our Word Counts

## Key Features

- Created Within the X Platform
- Industry 4.0 Product Concept
- HW and FW Optimised for Extremely Fast Operation
- System and Project Rapid Boot-Up
- OS Linux RT
- JMobile - the software that powers the X Platform
- CODESYS V3 with Ethernet I/O Stacks
- Multitouch and Gesturing
- Brilliant 2,100,000 pixel Display
- Wide Angle Visibility
- Beautiful 16,000,000 Colors
- Resistant to Scratches, UV and Chemicals
- Total Glass Design
- Network Separation possibile via
- Up to 3 Ethernet Networks with different IP addresses
- Plug in Modules for system Expansion
- RCM*, IECEx*, ATEX*, DNV-GL*, cULus*, cULus Haz. Loc.*

# eX700 Series

A beautiful product, created within the X Platform and hence with an unsurpassed ability to offer access and scalability into Industry 4.0. The tremendous technical flexibility is backed by a company with 45 years in the industry and still with a market price at previous models.

The eX700 Series represents a ground breaking product to come to market:

The Revolutionary IIoT Controller.

The product's concept permits a prudent investment into the implementation of IIoT and hence Industry 4.0 compatibility.
As such it provides a true all-in-one solution covering many functions such as:

• As a powerful **Browser** with industry standard Web engine powering state of the art Chromium browser

• As a **Gateway** with up to 3 Ethernet networks, OPC UA pub/sub* Server and Client, future TSN connectivity* and multiple protocols

• As a powerful **HMI** using JMobile inside with multi touch operation in a brilliant high resolution display

• As a **PLC** with the CODESYS V3 can function as Master through major protocols

*Road map for 2017

# Data Sheet

# eX705 - Technical Data

| System Resources | |
|---|---|
| Display - Colors | 5" TFT 16:9 LED - 64K |
| Resolution | 800x480, WVGA |
| Brightness | 300 Cd/m2 typ. |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive, Multitouch |
| CPU | ARM Cortex-A8 - 1 GHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 512 MB |
| Real Time Clock, RTC Back-up, Buzzer | Yes |
| **Interface** | |
| Ethernet port | 2 (port 0 - 10/100, port 1 - 10/100) |
| USB port | 1 (Host V2.0, max. 500 mA) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 1 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc ( 10 to 32 Vdc ) |
| Current Consumption | 0.6 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery,  not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -20°C to +70°C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP66 (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 147x107 mm (5.78x4.21") |
| Depth D | 56+8 mm (2.40+0.31") |
| Weight | 1.0 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments |

# eX707 - Technical Data

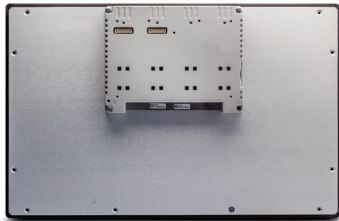| System Resources | |
|---|---|
| Display - Colors | 7" TFT 16:9 LED - 16M |
| Resolution | 800x480, WVGA |
| Brightness | 500 Cd/m2 typ. |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive, Multitouch |
| CPU | ARM Cortex-A9 dual core 800 MHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 1 GB |
| Real Time Clock, RTC Back-up, Buzzer | Yes |
| **Interface** | |
| Ethernet port | 3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100) |
| USB port | 2 (Host V2.0, max. 500 mA) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 2 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc (10 to 32 Vdc) |
| Current Consumption | 0.7 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery,  not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -20°C to +70°C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP66 (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 187x147 mm (7.36x5.79") |
| Depth D | 47+8 mm (1.85+0.31") |
| Weight | 1.3 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments |

# eX710 - Technical Data

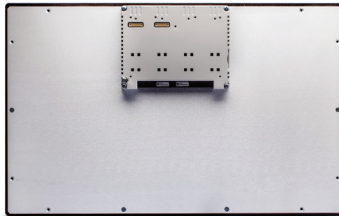| System Resources | |
|---|---|
| Display - Colors | 10.1" TFT 16:9 LED - 16M |
| Resolution | 1280x800, WXGA |
| Brightness | 500 Cd/m2 typ. |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive, Multitouch |
| CPU | ARM Cortex-A9 dual core 800 MHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 1 GB |
| Real Time Clock, RTC Back-up, Buzzer | Yes |
| **Interface** | |
| Ethernet port | 3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100) |
| USB port | 2 (Host V2.0, max. 500 mA) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 2 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc (10 to 32 Vdc) |
| Current Consumption | 1.0 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery,  not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -20°C to +70°C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP66 (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 282x197 mm (11.10x7.80") |
| Depth D | 56+8 mm (2.20+0.33") |
| Weight | 1.7 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments |

# eX715 - Technical Data

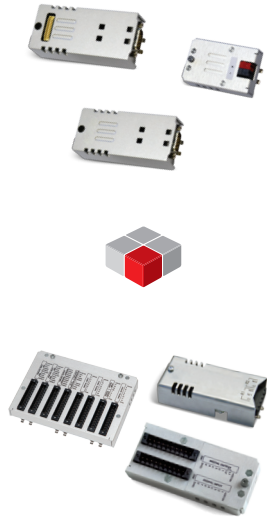| System Resources | |
|---|---|
| Display - Colors | 15,6" TFT LED - 16M |
| Resolution | 1366x768, HD |
| Brightness | 300 Cd/m2 typ. |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive, Multitouch |
| CPU | ARM Cortex-A9 quad core 800 MHz |
| Operating System | Linux RT |
| Flash | 8 GB |
| RAM | 2 GB |
| Real Time Clock, RTC Back-up, Buzzer | Yes |
| **Interface** | |
| Ethernet port | 3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100) |
| USB port | 2 (Host V2.0, max. 500 mA) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 2 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc (10 to 32 Vdc) |
| Current Consumption | 1.2 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery,  not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -20°C to +70°C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP66 (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 422x267 mm (16.6x10.5") |
| Depth D | 56+8 mm (2.20+0.33") |
| Weight | 4.1 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments |

# eX721 - Technical Data

| System Resources | |
|---|---|
| Display - Colors | 21,5" TFT LED - 16M |
| Resolution | 1920x1080, full HD |
| Brightness | 300 Cd/m2 typ. |
| Dimming | to 0% |
| Touchscreen | True Glass Projected Capacitive, Multitouch |
| CPU | ARM Cortex-A9 quad core 800 MHz |
| Operating System | Linux RT |
| Flash | 8 GB |
| RAM | 2 GB |
| Real Time Clock, RTC Back-up, Buzzer | Yes |
| **Interface** | |
| Ethernet port | 3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100) |
| USB port | 2 (Host V2.0, max. 500 mA) |
| Serial port | 1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules. |
| SD card | Yes |
| Expansion | 2 slot for plug in modules |
| **Ratings** | |
| Power supply | 24 Vdc (10 to 32 Vdc) |
| Current Consumption | 1.7 A at 24 Vdc (max.) |
| Input Protection | Electronic |
| Battery | Rechargeable Lithium battery,  not user-replaceable |
| **Environment Conditions** | |
| Operating Temp | -20° to +60 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C |
| Storage Temp | -20°C to +70°C |
| Operating / Storage Humidity | 5-85% RH, non condensing |
| Protection Class | IP66 (front), IP20 (rear) |
| **Dimensions and Weights** | |
| Faceplate LxH | 552x347 mm (21,7x13,66") |
| Depth D | 56+8.5 mm |
| Weight | 6.1 Kg |
| **Approvals** | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments |

# Accessories

| | |
|---|---|
| PLCM01 | Plug-in module CAN |
| PLCM02 | Plug-in module for KNX/EIB (TP interface) |
| PLCM03 | Plug-in module RS-232 |
| PLCM04 | Plug-in module RS-422/485 with optical insulation |
| PLCM06 | Plug-in module Profibus DP slave 12 MB |
| PLCM07 | Secure Cloud Connector |
| CODESYS V3 SoftPLC | CODESYS V3 activation license |
| PLIO03 | I/O Module with 20 DI 24VDC, 12 DO 24VDC 0,5 A, 8 AI (4 diff or 8 single or 4 PT100 or 4 TC), 4 AO, 1 PT100 Cold Junct |
| PLIO04 | I/O Module with 10 DI 24VDC, 10 DO SSR 1.4 A, 4 Programmable AI voltage/PT100/TC, 4 AI voltage, 1 PT100 |
| PLIO06 | Compact I/O module. 8 DI, 6 DO, 1 Relay Output |
| PLIO07 | Compact I/O module. 2 Relay Outputs |

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