

Control hardware
IndraControl XM21



Control hardware

IndraControl XM21**Documentation**

- Brochures
- Operating Instructions

Advantages:

- Protection category: IP20
- On-board Sercos master with 250 μ s cycle time
- High control performance via Intel ATOM process architecture with 600 MHz or 1,300 MHz
- Gigabit Ethernet, USB, SD card slot, diagnostic LED
- Modular expansion options with extension and I/O modules
- Extended temperature range from -25 °C to +60 °C

The IndraControl XM control platform is available for a wide variety of different motion logic applications.

Local connection of the modules from the new IndraControl S20 I/O family expands the control system flexibly to a high-performance process link. As standard, decentralized I/Os, drives, and other system peripherals are connected via Sercos. Optional extension modules open up further integration options. The service-friendly design is an easy way to reduce installation and commissioning costs.

Technical data

		IndraControl XM21
Memory		
RAM		512 MB
Interfaces		
Ethernet		1.0 x (10 MB, 100 MB, 1 GB)
USB		1 x (USB-Host)
		1 x (USB-Device)
Serial		1 x Slot for SD card
I/O		
Function extension		Connection of IndraControl XM extension modules XFE01-1-FB-xx via controller bus socket module XA-BS02 (included in scope of delivery)
I/O extension		Connection of IndraControl S20 modules via controller bus socket module XA-BS01 or XA-BS02 (included in scope of delivery)
Fieldbus		
PROFINET	(via extension modules)	PROFINET RT (Controller/device)
Sercos		Master/Slave
EtherNet/IP	(via extension modules)	Scanner/adapter
PROFIBUS	(via extension modules)	PROFIBUS DP (Master/Slave)
Electrical data		
Supply voltage U		24 V DC
U_{\min} ... U_{\max}		18 V ... 31.2 V (including all tolerances, including ripple)
Norms and Standards		
Certification		CE/UL/CSA
Weight		

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Weight	0.38 kg
Ambient conditions	
Permissible temperature (operation)	-25 °C ... +60 °C
Permissible relative humidity (operation)	5% to 95%, EN 61131-2
Protection category	IP20
Fatigue limits according to EN 60068-2-6	5 g
Shock resistance (single shock) according to EN 60068-2-27	30 g

Dimensions

		IndraControl XM21
Dimensions		
Height H	[mm]	126.3
Width B	[mm]	100
Depth T	[mm]	74.1

Order details

Type code	Description	Material number:
XM2100.01-01-31-31-001-NN-100N3NN	XM21 with bus socket module for S20 connection (right), function packages: PLC, OCI, OPC UA	R911345727
XM2100.01-01-31-31-001-NN-105N3NN	XM21 with bus socket module for S20 connection (right), function packages: PLC, MOTION, HYDRAULIC, OCI, OP UA	R911370766
XM2100.01-01-31-31-001-NN-108N3NN	XM21 with bus socket module for S20 connection (right), function packages: PLC, MOTION, TECHNOLOGY, ROBOT CONTROL, HYDRAULIC, OCI, OPC UA	R911345728
XM2100.01-01-31-31-301-NN-100NNNN	XM21 with bus socket module for S20 connection (right) and extension modules (left), function packages: PLC	R911370639
XM2100.01-01-31-31-301-NN-100N1NN	XM21 with bus socket module for S20 connection (right) and extension module (left), function packages: PLC, OPC UA	R911370489
XM2100.01-01-31-31-301-NN-100N3NN	XM21 with bus socket module for S20 connection (right) and extension module (left), function packages: PLC, OCI, OPC UA	R911345644
XM2100.01-01-31-31-301-NN-101NNNN	XM21 with bus socket module for S20 connection (right) and extension modules (left), function packages: PLC, MOTION	R911370704
XM2100.01-01-31-31-301-NN-101N1NN	XM21 with bus socket module for S20 connection (right) and extension modules (left), function packages: PLC, MOTION, OPC UA	R911347640
XM2100.01-01-31-31-301-NN-103N2NN	XM21 with bus socket module for S20 connection (right) and extension modules (left), function packages: PLC, MOTION, ROBOT CONTROL, OCI	R911371331
XM2100.01-01-31-31-301-NN-108N3NN	XM21 with bus socket module for S20 connection (right) and extension modules (left), function packages: PLC, MOTION, TECHNOLOGY, ROBOT CONTROL, HYDRAULIC, OCI, OPC UA	R911346976

Accessories

Type code	Description	Material number:
XA-CN01	Plug for 24 V connection	R911173741
XA-BS01	Bus socket module for IndraControl S20 connection (right)	R911342346

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Type code	Description	Material number:
XA-BS02	Bus socket module for IndraControl S20 connection (right) and extension modules (left)	R911342347
XA-SD01	SD card 1 GB	R911173844
SUP-M01-ENDHALTER	Snap-on end bracket, for 35 mm DIN rail, width: 9.5 mm; packaging unit: 2 pieces	R911170685

System

Description	Page	Details
Motion logic system	IndraMotion MLC	Controller-based

Accessories**Auxiliary components**

Description		
Control hardware	IndraControl XM Extension Module	
I/O	IndraControl S20	IP 20

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