

Data sheet

IM 053EC - EtherCAT slave (053-1EC00)

Technical data

Order no.	053-1EC00
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Type	IM 053EC - EtherCAT slave
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Module ID	-
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General information

Note	-
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Features	2-Port Switch RJ45 100BaseTX full duplex Supports the application profile: CoE, EoE Various diagnostics functions Integrated DC 24V power supply for power and electronic section supply of the periphery modules Status LEDs Up to 64 peripheral modules
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Technical data power supply

Power supply (rated value)	DC 24 V
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Power supply (permitted range)	DC 20.4...28.8 V
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Reverse polarity protection	yes
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Current consumption (no-load operation)	95 mA
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Current consumption (rated value)	0.95 A
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Inrush current	3.9 A
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I^2t	0.14 A ² s
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Max. current drain at backplane bus	3 A
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Max. current drain load supply	10 A
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Power loss	3 W
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Status information, alarms, diagnostics

Status display	yes
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Interrupts	yes, parameterizable
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Process alarm	yes, parameterizable
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Diagnostic interrupt	yes, parameterizable
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Diagnostic functions	yes, parameterizable
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Diagnostics information read-out	possible
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Supply voltage display	green LED
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Service Indicator	-
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Group error display	red SF LED
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Channel error display	none
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Hardware configuration

Racks, max.	1
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Modules per rack, max.	64
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Number of digital modules, max.	64
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Number of analog modules, max.	64
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Communication

Fieldbus	EtherCAT
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Type of interface	Ethernet 100 MBit
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Connector	2 x RJ45
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Topology	Line structure with branches and stitches
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Electrically isolated	yes
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Number of participants, max.	65535
Node addresses	-
Transmission speed, min.	100 Mbit/s
Transmission speed, max.	100 Mbit/s
Address range inputs, max.	512 Byte
Address range outputs, max.	512 Byte
Number of TxPDOs, max.	-
Number of RxPDOs, max.	-
Supported profile	-
Supported transfer cycle	-
Cyclic data size per node	-
Max. Number of nodes	-
Supported communication method	-
Supported command "Cyclic"	-
Supported command "Event driven"	-
Supported command "Message"	-

Datasizes

Input bytes	8
Output bytes	-
Parameter bytes	-
Diagnostic bytes	-

Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	48.5 mm x 109 mm x 76.5 mm
Net weight	160 g
Weight including accessories	160 g
Gross weight	175 g

Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

Certifications

UL certification	yes
KC certification	yes
UKCA certification	-
ChinaRoHS certification	-