



i EK9160 | IoT Bus Coupler



The EK9160 Coupler provides direct connectivity for EtherCAT I/Os to the Internet of Things (IoT) without the need for a control program. It converts the E-bus signal representation to different IoT communication protocols and enables in this way the simple and standardised integration of I/O data into cloud-based communication and data services. Neither a controller nor prior programming is necessary. The I/O data transmission can be parameterised in a user-friendly configuration dialog of the integrated web server providing access via any browser. The required cloud services and security functions (authentication, encryption, etc.) can also be conveniently configured using a browser. Following

parameterisation, the coupler autonomously transmits the digital or analog I/O values to the cloud service, including timestamp. To safeguard against data loss in the event of network failures, a local buffer is available for the transmitted I/O data.

Technical data	EK9160
Task within EtherCAT system	coupling of standard digital and analog EtherCAT Terminals to the IoT world
Protocol	MQTT, AMQP (in preparation)
Data transfer rates	100 Mbit/s
Configuration	via integrated web server
Bus interface	2 x RJ45 (switched)
Power supply	24 V DC (-15 %/+20 %)
Input current	150 mA + (total E-bus current)/4
Current supply E-bus	2000 mA
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Dimensions (W x H x D)	71 mm x 100 mm x 73 mm
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/see documentation



Product announcement

estimated market release on request