



## i EK1110-0043 | EtherCAT EJ coupler, CX and EL terminal connection

The EK1110-0043 EtherCAT EJ coupler connects the compact DIN rail PCs from the CX series and attached EL terminals to the EJ modules on an application-specific PCB (signal distribution board). The E-bus signals and the supply voltage  $U_p$  from the field side are forwarded directly to the PCB via a plug connector on the rear side of the EtherCAT EJ coupler. The direct connection between Embedded PC, EL terminals and the EJ modules via the PCB means that neither an EtherCAT extension (EK1110) nor an EtherCAT Coupler (EJ1100) is required. The Embedded PC can be expanded by EtherCAT Terminals that, for example, are not yet available in the EJ system. The pre-assembled subsystem, which consists of a DIN rail including Embedded PC and EtherCAT plug-in modules mounted on the PCB, can be tested in advance and integrated optimally as a complete unit into the assembly of the produced machine at a later time. The EK1110-0043 is supplied with power by the power supply unit of the Embedded PC. The supply of power to the E-bus signals ( $U_{E-bus}$ ) and the power contacts ( $U_p$ ) is signalled via diagnostic LEDs.

Technical data	EK1110-0043
Task within EtherCAT system	forwarding of E-bus signals to the signal distribution board (EJ board)
Data transfer medium	PCB tracks on the signal distribution board
Bus interface	plug connector on the rear side of the EtherCAT EJ coupler
Power supply	from E-bus, Embedded PC power supply module
Electrical isolation	500 V (supply voltage/Ethernet)
Weight	approx. 50 g
Operating/storage temperature	0...+55 °C/-25...+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
Approvals	CE



### Product announcement

estimated market release 2nd quarter 2019