



EL6614 | Ethernet switch port terminal

The EL6614 Ethernet switch port terminal is used for the decentralised connection of Ethernet devices to the EtherCAT Terminal network. The EtherCAT system relays the Ethernet communication of the connected devices fully transparent and collision-free.

The EL6614 Ethernet switch port terminal is a decentralised switch that gets power from the E-bus. It relays the frames received from the ports to the destination ports. In full duplex mode, it thus enables collision-free communication of the connected devices with each other.

The switch port terminal can be installed at any location within the EtherCAT strand. No configuration is required.

Further benefits underline the particular suitability for the application in industrial environments:

- compact design in EtherCAT Terminal housing
- 10/100 Mbaud, half or full duplex, with automatic baud rate detection
- support for network variables

Technical data	EL6614
Number of Ethernet ports	4
Bus system	all Ethernet (IEEE 802.3)-based protocols, store and forward switching mode
Ethernet interface	10BASE-T/100BASE-TX Ethernet with 4 x RJ45
Data transfer rates	10/100 Mbit/s, IEEE 802.3u auto-negotiation, half or full duplex at 10 and 100 Mbit/s possible, automatic settings
Cable length	up to 100 m twisted pair
Hardware diagnosis	status LEDs
Power supply	via the E-bus
Distributed clocks	–
Electrical isolation	500 V (E-bus/Ethernet)
Protocol	all Ethernet (IEEE 802.3)-based protocols, store and forward switching mode
Configuration	no
Current consumption power contacts	–
Current consumption E-bus	typ. 450 mA
Special features	support of RT Ethernet, publisher/subscriber, DHCP/BootP address allocation (1 device)
Weight	approx. 95 g
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
Approvals	CE, UL, Ex

System	
Ethernet TCP/IP	For further Ethernet TCP/IP products please see the system overview .

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