

Beckhoff — EJ EtherCAT Plugins

EJ4134



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The **EJ4134** is a plug-in I/O module produced by **Beckhoff** within the EJ EtherCAT Plugins series. Designed for compact, high-density control systems, it snaps onto a carrier board and supplies setpoints to field devices through the EtherCAT backplane. In industrial automation, this plug-in simplifies cabinet wiring by embedding signal conditioning directly on the circuit board, allowing machine builders to create application-specific layouts while retaining the real-time performance of EtherCAT.

Communication and logic power are handled by the **E-bus** backplane inside the carrier. The module provides **4** individually addressable channels, giving a controller separate process-image entries for each analog output. Process data moves across the bus at **100 Mbit/s**, which supports the transfer of all channel data during each EtherCAT cycle with low communication delay. Digital electronics are supplied by a stabilized **3.3 V** rail drawn from the bus, while the output stage receives a separate **24 VDC** field supply so that high-current loads do not disturb the logic lines. Separating the logic and field supplies helps the module generate precise voltage or current signals while limiting common-mode noise at the controller. Each independently controlled channel can receive updated output data through the process image without requiring separate communication wiring.

The module uses the designated **Analog Output** function class, so each channel converts controller data into a proportional voltage or current for connected actuators. Its compact form factor is intended for attachment to a **Signal Distribution Board**, allowing power layers and signal lines to be routed through multilayer copper instead of discrete wiring. Low-voltage differential signaling over the **LVDS** physical layer reduces electromagnetic

emissions and supports high-speed data transfers between the plug-in and adjacent modules. The carrier-board format also reduces point-to-point wiring within compact control assemblies. EtherCAT communication allows the analog channels to operate as part of the same synchronized process image used by other I/O modules in the control system.

Specifications

Backplane Bus:	E-bus	Channel Count:	4	Core Hardness:	HRC 28-32
E-bus Data Rate:	100 Mbit/s	E-bus Voltage:	3.3 V	Electrical Isolation:	500 V (E-bus/signal voltage)
Field Supply Voltage:	24 VDC	I/o Type:	Analog Output	Load Resistance:	> 5 k Ω ? (short-circuit proof)
Material:	Stainless Steel	Maximum Operating Temperature:	400°C	Minimum Yield Strength:	640 MPa
Mounting:	Signal Distribution Board	Output Channels:	4 analog outputs	Overall Length:	120 mm
Physical Layer:	LVDS	Resolution:	16-bit	Signal Voltage Range:	$\pm$ 10 V
Surface Finish:	Polished	Tensile Strength:	800 MPa	Thread Length:	40 mm
Thread Size:	M12 x 1.75	Weight:	0.32 kg	Last Verified:	10/24/2026 2:11 AM

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