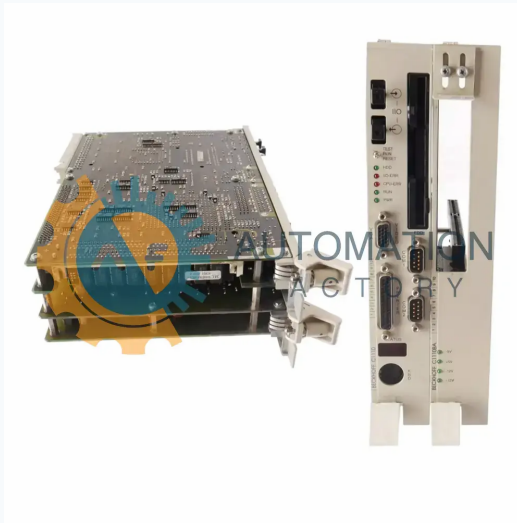


Beckhoff — C1 Interface Cards

C1300 **In-Stock, Ships Today**

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The **C1300** interface card is produced by Beckhoff as part of the C1 Interface Cards series. Designed for VMEbus installations, the board links a VME host to decentralized I/O stations through the I/O Lightbus System. By presenting a shared memory window to the CPU, the card enables deterministic data exchange among motion controllers, sensors, and actuators in industrial automation environments.

Up to **254 Lightbus modules** can be addressed per card, allowing extensive node expansion without additional bus couplers. The onboard dual-port RAM offers **3 Kbytes of direct process data capacity**, and each cyclic transfer sends a **32-bit payload in 25 µs**, making the interface suitable for high-speed motion and time-critical I/O tasks. For firmware buffers and diagnostic flags, the hardware provides a separate DPRAM segment with a capacity of **2 K × 8 bits**. During every transaction, the controller exchanges a handshake field of **255 bytes per channel** so the host can acknowledge receptions and schedule subsequent telegrams. Block transfer is not supported; instead, all communication relies on fixed-length telegrams to keep latency predictable.

Within the VME memory map, the card occupies a **4 Kbyte host address window** that can be placed in A24 space using the selectable A24/D16 or A24/D08 slave modes. Four programmable request lines generate up to **4 vectored interrupts** through the D08 VME interrupter, providing deterministic service times without polling. Serial communication between the Lightbus transceiver and the optical ring operates at a sustained rate of **2.5 MBaud** and is synchronized by the bus master. All logic and optoelectronics are powered directly from the VME backplane supply. The board measures **100 mm × 160 mm**, matching the Eurocard format established in VMEbus Rev. C1

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and fitting standard card cages alongside motion controllers and PLC CPUs.

Specifications

Addressable Modules:	254	Block Transfer:	Not Supported	Corrosion Resistance:	Yes
Data Area Size:	3 Kbyte	Data Connection:	II/O Lightbus System	Data Exchange Rate:	32 Bit in 25 μsec
Diameter:	10 mm	Dpram Size:	2 K x 8	Finish:	Polished
Grade:	A2	Handshake Capacity:	255 Bytes per Channel	Head Type:	Hex
Host Address Space:	4 Kbyte	Interrupt Channels:	4	Length:	50 mm
Material:	Stainless Steel	Operating Temperature Range:	-20°C to +150°C	Pcb Size:	100 mm x 160 mm
Power Supply:	VME Bus	Rohs Compliance:	Yes	Thread Type:	M10 x 1.5
Tolerance:	±0.05 mm	Transmission Rate:	2.5 MBaud	Vme Interrupter:	D08
Vme Slave Modes:	A24/D16 and A24/D08	Vme Standard:	VMEbus Rev. C1	Weight:	0.075 kg
Last Verified:	10/24/2026 1:56 AM				

Contact Us

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Shipping Options



Payment Methods



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