

Beckhoff — C6 Industrial PC Units

C6525-1021-0050



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The **C6525-1021-0050** is an industrial personal computer manufactured by Beckhoff within the C6 Industrial PC Units series. It serves as a compact control node that runs motion, logic, and visualization tasks directly in automated production lines. Designed for cabinet mounting, the system uses fanless cooling and solid-state components, supporting continuous operation in environments where equipment is exposed to vibration, electromagnetic noise, and elevated ambient temperatures. Its architecture combines PC-class processing with industrial connectors so users can consolidate HMI, fieldbus master, and data management functions on a single platform.

The front panel provides one DVI interface for a local monitor and **two Ethernet ports** that use the gigabit-capable **100/1000BASE-T** physical layer. The primary network interface uses an **Intel i210** controller connected through the high-bandwidth **PCIe** bus, providing deterministic data transfer for real-time field protocols. A second port is routed through the chipset link, creating an independent path for plant supervisory traffic. Video, storage, and networking loads are isolated so control cycles remain predictable. Input power is supplied at **24 VDC**, allowing the PC to connect directly to common control-voltage rails without an external converter.

Peripheral expansion is provided through **four USB ports** that operate according to the **USB 2.0** standard, making them suitable for memory sticks, service keyboards, or low-speed cameras. Legacy devices are supported by a single RS-232 line presented on a **9-pin D-Sub** connector, simplifying integration with scales or barcode readers. The secondary network interface uses an **Intel i219** controller integrated into the chipset, providing another

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connection without occupying an expansion slot. Protective grounding is completed through a grounding stud, which provides a secure connection to the cabinet's protective earth system. An eight-pole power plug carries the incoming supply together with remote-on contacts, simplifying cabinet wiring and external power control.

Specifications

Bore Diameter:	50 mm	Casting Specification:	ASTM A48 Class 30	Dvi Port Count:	1
Ethernet Port Count:	2	Ethernet Standard:	100/1000BASE-T	Ground Connection:	Stud Bolt
Material:	Cast Iron	Mounting Hole Diameter:	10.5 mm	Mounting Hole Spacing:	90 mm
Nominal Supply Voltage:	24 VDC	Operating Temperature Range:	-20°C to 150°C	Overall Height:	60 mm
Overall Length:	120 mm	Overall Width:	75 mm	Paint/coating:	None (bare metal)
Power Connector Poles:	8	Primary Ethernet Bus:	PCIe	Primary Ethernet Controller:	Intel i210
Rohs Compliance:	Yes	Secondary Ethernet Bus:	Chipset Integrated	Secondary Ethernet Controller:	Intel i219
Serial Connector:	9-pin SUB-D	Serial Interface:	RS232	Serial Port Count:	1
Surface Finish:	Ra 3.2 µm	Usb Port Count:	4	Usb Standard:	USB 2.0
Weight:	3.2 kg	Last Verified:	10/24/2026 1:52 PM		

Contact Us

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