

Beckhoff — CP Panel PC Systems

CP7812-0001

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The **CP7812-0001** is a panel PC manufactured by Beckhoff within the CP Panel PC Systems series. It brings the computing core, touch display, and field connections together in a sealed front panel so that machine operators can run visualization, diagnostics, and control tasks directly at the installation point. Serving as both an HMI and a controller, it reduces enclosure depth and cabling complexity for packaging lines, material-handling stations, and other distributed automation nodes where conventional box PCs are impractical.

The unit is powered from a nominal **24 VDC** field supply delivered through a 4-pole M12 connector, eliminating the need for an internal power brick. Visual output is routed through a **DVI-D** interface that terminates on a 19-pole M16 bulkhead, while the integrated TFT panel provides sharp, low-glare images for operators. The enclosure is milled from **aluminum**, providing a lightweight but rigid frame that dissipates heat without fans. A front gasket and rear seals provide a protection rating of **IP65**, allowing washdown with low-pressure water jets. Two USB ports support USB 1.1 and connect through a 5-pole M9 connector. Each USB channel provides a maximum transfer rate of **12 Mbps** for barcode readers or memory sticks. Four threaded holes allow the panel to fasten directly to a swing arm or cabinet door without additional brackets.

Continuous operation is permitted at temperatures from **0 °C** to **55 °C**, so climate control is unnecessary in most cabinets. The electronics remain functional at relative humidity levels as high as 95 percent without condensation. The panel withstands mechanical shocks of **5 G** for pulses lasting **30 ms**, protecting data integrity during transport or machinery impacts. A TFT backlight rated for industrial use maintains display readability throughout the product's

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service life. The sealed connections and fanless enclosure support operation in production areas exposed to dust, moisture, and routine cleaning. Shielded external video cabling also helps protect display signals from electromagnetic noise generated by nearby industrial equipment.

Specifications

Connections:	3 IP65 round connectors (DVI, USB, 24V)	Display Size:	15-inch TFT	Display Type:	TFT
Dvi Connector:	19-Pole M16	Dvi Standard:	DVI-D	Front laminate variants:	display, function keys, numeric/PC keyboard
Housing Material:	Aluminum	Installation Method:	Pull-out clamping levers	Interfaces:	DVI, USB
Max Operating Temp:	55 °C	Max Relative Humidity:	95%	Max Usb Rate:	12 Mbps
Min Operating Temp:	0 °C	Mounting Hole Count:	4	Mounting Holes:	4 x M6 x 18 mm threaded holes (backplane)
Nominal Supply Voltage:	24 VDC	Operating Temperature:	0 to +55 °C	Optional Keyboard:	IP65 keyboard
Optional Touch Screen Pen:	touch screen pen with holder	Optional USB Connector:	2-port IP65 USB connector	Power Connector:	4-Pole M12
Protection Class:	IP65	Recommended Use:	critical industrial systems	Resolution:	1024 x 768 pixels
Shock Duration:	30 ms	Shock Resistance:	5 G	Special Keys:	slide-in key labels
Touch Screen Availability:	available	Usb Connector:	5-Pole M9	Usb Standard:	USB 1.1
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