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**One-cable display link is  
simple, efficient and flexible**

# One-cable display link – simple, efficient, flexible

Beckhoff has bundled more than 15 years of know-how in flexible visualisation and control concepts into the development of its CP-Link 4 solution. This new connection technology can be used to install multi-touch control panels up to 100m away from the industrial PC.



Beckhoff will be showing its CP-Link4 solution, along with a range of PC-based control technology, at SPS/IPC/Drives 2013.

**T**he one-cable solution enables the transmission of video signals, USB 2.0 and power via one standard CAT-7 cable, reducing cable and installation costs.

Another benefit is the ability to use passive displays instead of panels with integrated CPUs.

The new Beckhoff panel series with industrially compatible multi-touch technology – the CP29xx-0010 'built-in' version and the CP39xx-0010 mounting arm version – offers a variety of display sizes and connection technologies. CP-Link 4 extends the multi-touch portfolio with a standard-based connection technology, supplementing the current CP29xx and CP39xx control panel ranges with DVI/USB-extended connection functionality.

Features of CP-Link 4 are its high flexibility for connecting a panel according to individual needs and its user-friendly plug-and-play capability. All that is required is a standard CAT-7 cable for the simultaneous transmission of video signals and USB-2.0 data, plus the power supply (if required).

CP-Link 4 is used with Beckhoff multi-touch control panel range. Encompassing

the CP2xxx and CP3xxx control panel and panel PC series, the multi-touch panels have a contemporary design and a modern operating concept. Widescreen panels in various sizes and resolutions are available, in addition to the classic display sizes in 4:3 format. The new panel generation can also offer

advantages to single-touch users, such as an optimised price-to-performance ratio with savings of up to 28%, compared to previous devices.

The CP-Link 4 connection technology is directly integrated into the CP29xx-0010 and CP39xx-0010 passive panels, regardless of application, cable lengths, whether a PCI express (PCIe) module or an external transmitter box is used for connection to the PC, or whether an integrated or a separate power supply is used. No special software or driver is needed to use CP-Link 4.

A further advantage is the use of standard commercial CAT-7 cables, which are less expensive than special DVI cables. They are also easier to install and are optionally available in drag-chain-compatible versions. The standard plug connectors are field-configurable; alternatively, pre-assembled cables are available as accessories.

Whether integrated via a CAT-7 cable or a separate power cord – the 24 V voltage supply of the control panel can be connected to the UPS output of the connected industrial PC. This offers reliable operation, as even in UPS mode the display can indicate when, for

example, the PC reports that data can still be saved for a few seconds before shutdown. If required, the power supply to the panel can also be completely separate from the IPC. The same control panel can be used with all supply variations; with an integrated supply, the power input socket on the panel simply remains free.

CP-Link 4 also offers advantages from a cost point-of-view. Simplified mounting and cable installation, especially over long distances, can offer considerable savings.

## One-cable display link

With the one-cable display link, the DVI and USB-2.0 signals, as well as the 24 V power supply are carried by the standard CAT-7 cable. For this a CU8803 transmitter box is required, which can be connected to any Beckhoff Industrial PC with a DVI and a USB cable and requires a 24 V power supply itself.

## Two-cable display link

In the case of the two-cable display link, which can be achieved in two versions, the DVI and USB-2.0 signals are also transmitted together via a single CAT-7 cable. Any industrial PC can be connected via the CU8802 transmitter box, or the C9900-E276 PCIe module can be integrated directly into some Beckhoff IPCs. The separate power supply is particularly suitable for emergency stop concepts with parallel wiring or for customer-specific control panels with additional electromechanical buttons.

Beckhoff will be exhibiting at the SPS/IPC/Drives event in Hall 7, Stand 406. [www.beckhoff.com](http://www.beckhoff.com)