# Fiber Optic DP Bus Connector

## Article Overview

A Fiber Optic DP Bus Connector enables PROFIBUS DP devices to communicate over fiber optic cables, providing electrical isolation, long-distance transmission, and immunity to electromagnetic interference.

Overview

A Fiber Optic DP Bus Connector is used in PROFIBUS DP networks to connect devices via fiber optic cables instead of traditional copper wiring. This is particularly useful in industrial environments with high electromagnetic interference (EMI) or long-distance communication requirements . The connector can interface with devices that lack an integrated optical interface or with RS-485 segments, converting electrical signals to optical signals and vice versa .

Key Components and Functionality

• Optical Bus Terminals (OBT): These terminals act as repeaters and converters, allowing RS-485 devices to connect to an optical PROFIBUS DP network. They typically feature duplex female connectors for two-fiber cables and a 9-pin D-sub connector for RS-485 devices .
• Fiber-to-Copper Converters: Devices like the ICF-1180I convert PROFIBUS signals from copper to fiber, extending communication distances up to 4 km with multi-mode fiber or 45 km with single-mode fiber. They provide electrical isolation (up to 2 kV) and prevent noise propagation across the network .
• Bus Couplers: Products such as the BK3520 link fiber optic PROFIBUS systems to modular bus terminal systems, supporting high transmission rates up to 12 Mbaud...

## Article Content

Profibus Fiber Optic Application in Topology

The PROFIBUS DP fiber optic medium can be either plastic or glass fiber using BFOC/2.5 connectors. An optical- electrical

Tech Tip: Using Fiber Optics in PROFIBUS – PROFINEWS

But there is a catch: Although for PROFIBUS DP any kind of physical media conversion is transparent (fiber optic or

DisplayPort

DisplayPort (DP) is a digital interface used to connect a video source, such as a computer, to a display

PROFIBUS DP Protocol: Complete Technical Guide

A complete technical guide to the PROFIBUS DP protocol — covering RS-485 physical layer, token bus access, DP

PROFIBUS Networks 1 2 3

The optical transmission technique has the following characteristics: Network topology: Bus, star or ring structure with OLMs, single

PROFIBUS-DP Network with Fiber-Optic Cables | Siemens S7-400

Download installation manual for Siemens S7-400. Learn more about PROFIBUS-DP Network with Fiber-Optic Cables,

BK3520 | PROFIBUS fibre optic

Product description: The particular feature for the BK3520 Bus Coupler is its fibre optic connection and its high transmission rate of

BIFALE DP Fiber Optic Cable 25ft, DisplayPort Fiber Optic

The cable''s PVC jacket and military-grade aramid fiber construction ensure high-strength tensile resistance and protection against

DP-OPT-TX150 | DisplayPort Optical Extender

DP-OPT-TX150 is a Dual-mode DisplayPort 1.1a optical extender transferring up to 4K/UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0)

PROFIBUS Optical Bus Terminal (OBT)

Connections The connection between the individual bus nodes takes the form of an optical bus with two-fiber plastic fiber-optic

Profibus to FO Converter | Shubham International Inc.

Profibus DP to Fiber Optic Point-to-Point Converter The Profibus DP to Fiber Optic Converter use the progressive digital

Optical Bus Terminal (OBT)

Product description: The OBT (Optical Bus Terminal) connects a PROFIBUS DP station without an integrated optical interface to the

ICF-1180I Series

The ICF-1180I industrial PROFIBUS-to-fiber converters are used to convert PROFIBUS signals from copper to optical fiber. The

PROFIBUS Design and good practices

To create hierarchy in the network, PROFIBUS defines 2 types of stations: active (masters) and passive (slaves). At least 1 master is

Microsoft Word

The PROFIBUS DP fiber optic medium can be either plastic or glass fiber using BFOC/2.5 connectors. An optical-electrical converter

GEFEN EXT-DP-CP-FM10 DisplayPort Fiber Optic Pigtail Module

Amazon : GEFEN EXT-DP-CP-FM10 DisplayPort Fiber Optic Pigtail Module Extender : Electronics The Display Port fiber optic

BIFALE DP Fiber Cable 75ft, Displayport Fiber Optic High

BIFALE DP Fiber Cable 75ft, Displayport Fiber Optic High Speed 32.4 Gbps 8K@60Hz 4K@165Hz 2K@144Hz, DP1.4, Slim and

PROFIBUS Optical Bus Terminal (OBT)

The PROFIBUS OBT (Optical Bus Terminal) it is a network component used in optical PROFIBUS DP fieldbus networks. It allows the

BIFALE Fiber Cable 50ft Displayport Fiber Optic, 32.4Gbps

BIFALE High Quality DP 1.4 Fiber Optic Cable 32.4 Gbps 8K@60Hz 4K@165Hz 2K@144Hz 4-core optical fiber, 7-core copper

PROFIBUS Network Manual

To interface electrical cables with fiberoptic cables, you have the following possibilities: PROFIBUS nodes with a PROFIBUS-DP

PROFIBUS

Useful and easy-to-operate tools are available for the configuration, parameterization, commissioning and diagnostics of

Microsoft Word

Summary This series of products is an industrial grade Profibus bus optical fiber converter, in line with the Profibus-DP protocol, the

BK3520 | PROFIBUS Economy plus Bus Coupler, fiber optic

The particular feature for the BK3520 Bus Coupler is its fiber optic connection and its high transmission rate of up to 12 Mbaud. The

Bus system PROFIBUS-DP/FMS/FIP

UNITRONIC® BUS PB TORSION UNITRONIC® BUS PB FESTOON Sub-D Bus-Connectors EPIC® DATA PB Sub-D EPIC® DATA

Where To Buy DisplayPort Over Fiber Extenders | Markertek

The Ophit OMb-DP is a standalone type DisplayPort 1.2/1.4 optical fiber extender that complies with DisplayPort 1.2/1.4 standard and

PROFIBUS-DP Network with Fiber-Optic Cables | Siemens S7-400

You will find below the most important information on setting up an optical PROFIBUS-DP network with PROFIBUS nodes that have

Profibus Multi-Drop Bus Fiber Optic Converter

Product Description The Profibus Multi-Drop Bus Fiber Optic Modem series products provide an optical bus network for Profibus,

Industrial Profibus-DP Fiber Converter

Physical interface: 9-pin D-Sub jack connector with pin definitions in accordance with Profibus DP protocol specifications Rate

DisplayPort Fiber Extenders & Active Optical Cables — Opticis

DisplayPort Extenders Opticis was first to develop a 4K@60hz DP signal over fiber solution, and is an industry leader in DisplayPort

## Contact Us

For more information, pricing, or custom solutions, please contact us:

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