

New ESCON Connectors for Intelligent Computing Centers



Overview

ESCON uses fibre optics to replace existing bus and tag cables in a new or existing data centre. High-speed board-to-board connectors, next-generation cables, backplanes, and near-ASIC connector-to-cable solutions operating at speeds up to 224 Gb/s-PAM4 will accelerate the future of computing. Artificial intelligence (AI) and machine learning (ML) applications are creating unprecedented. This edition, SB10-7034-05 applies to the IBM®System z™processors, and replaces SB10-7034-04. There may be a newer version of this document in PDF format available on Resource Link™. click on Library on the navigation bar. A newer version is. At DesignCon 2025, Sam Kocsis, director of standards and technology at Amphenol, explained several new interconnect solutions for promoting performance, reliability, and efficiency necessary for next generation data center deployments. The connector system is a Retractable Shroud Duplex (RSD). The report titled "Latest Interconnect Trends in High-Performance Computing in Server and Storage" from Amphenol Communication Solutions provides a comprehensive overview of the advancements in interconnect technologies that are essential for High-Performance Computing (HPC) systems.

Article Content

Feb 14, 2026

ESCON2 Feature Chart

ESCON2 Feature Chart The ESCON2 line of products from maxon are small, powerful 4-quadrant PWM servo controllers. Their high power density allows flexible use for brushed DC motors and brushless

Oct 18, 2025

Striding Towards the Intelligent World White Paper 2024: Data

In intelligent computing cloud services, computing power is crucial, while the computing network serves as the backbone. For example, China Mobile is constructing a "4+N+31+X" multi

Oct 19, 2025

CONNECTORS & ADAPTORS

ESCON uses fibre optics to replace existing bus and tag cables in a new or existing data centre. Designed to connect a wide range of peripherals to IBM mainframe computers, the architecture

Oct 21, 2025

Solution Brief Inspur Electronic Information's Big Data and Intelligent ...

"The industry"s demand for computing power is accelerated by the application of big data and AI. This requires not only a high-performance new-generation hardware platform but also

Dec 05, 2025

Intelligent Computing Technical Insights | Why Do We

On the other hand, while an all-box architecture can theoretically support larger intelligent computing networks, not all customers require such massive

Mar 06, 2026

ESCON host adapters and cables

Each ESCON host adapter port requires a 62.5-micron multimode fiber-optic ESCON cable to connect the ports to a server or fabric port. These cables have a small form factor, industry standard MT-RJ

Feb 07, 2026

Enterprise System Connection (ESCON) Fiber-Optic Link

The ESCON connector is a low-profile, polarized, push-on connector that latches into a transmitter receiver subassembly (TRS) or coupler assembly. The fiber used in the jumper is

Jun 06, 2026

ESCON and FICON CTC

A CTC connection requires an ESCON CTC channel at one end of the connection and an ESCON CNC or FCV channel at the other end of the connection. A CTC connection supports bidirectional CTC

Mar 04, 2026

Enterprise Systems Connection

Enterprise Systems Connection (ESCON) is a crucial technology term primarily because it refers to a data transfer interface used in mainframe systems. Initially developed by IBM, it is

Feb 18, 2026

ESCON Physical Layer

Maintenance Information for Fiber Optic Links (ESCON, FICON, Coupling Links, and Open System Adapters), SY27-2597, provides problem determination, verification, and repair procedures for

Jun 17, 2026

DDP template for SG13 (2022-2024 study period)

Draft new Recommendation ITU-T Y.NCE-DAICC Network capability enhancement for distributed artificial intelligent computing centers in NGNe 1. Scope This draft Recommendation

Sep 04, 2025

What Is Escon In Computing? | Computing Terms & Abbreviations

What is Enterprise Systems Connection (ESCON)? Enterprise Systems Connection (ESCON) is a high-speed, fiber optic-based interface technology that provides connectivity between

Nov 09, 2025

Enterprise System Connectivity (ESCON) channel

In order to accommodate parallel channel-attached control units and devices, the ESCON conversion mode allows communication from an ESCON channel to parallel channel-attached control units. The

Jun 11, 2026

Enterprise Systems Connection (ESCON) Architecture-System overview

Abstract: This paper serves as an introduction to a wholly new IBM data processing interconnection system called Enterprise Systems Connection (ESCON™) Architecture™.

Oct 19, 2025

Connectors and cables modernize data centers

Demands for bandwidth-intensive, data-driven services are fueling a rise in compute, data storage, and networking capabilities. These rises put

Jan 10, 2026

(PDF) Proper Sizing and Modeling of ESCON to FICON Migrations A ...

Therefore, the metric using 18 of the new tape technology 3592 FICON most crucial to designing the native tape component drives. For a 97% workload requirement requiring of FICON infrastructure is

Aug 24, 2025

What is ESCON? | Webopedia

Short for Enterprise Systems Connection, or Enterprise Systems Connectivity, an IBM fiber optic connection technology that interconnects S/390 mainframe computers, workstations and

Aug 14, 2025

A Comprehensive Justification For Migrating From ESCON to FICON

The Enterprise Systems Connection (ESCON) architecture is a comprehensive interconnection system that embodied a synergy of technology, architecture, channels, and topology using fiber optics. 2.2.1

Dec 05, 2025

Challenges and key technologies of new Ethernet for intelligent ...

The data volume and the number of parameters of AI large model are expanding continuously, which brings the network of intelligent computing centers serious challenges, and also brings an

Dec 17, 2025

PA-1C-E ESCON Channel Port Adapter Installation and Configuration

This document contains instructions for installing and configuring the Enterprise Systems Connection (ESCON) IBM Channel Port Adapter (PA-1C-E), which is used in the Cisco 7200-series routers.

Sep 12, 2025

2024 MWC Shanghai | H3C Fully Demonstrates New Achievements in ...

With an advanced DDC (Distributed Data Center) architecture, it offers innovative zero-congestion lossless solutions, enhancing computing communication efficiency. H3C also teamed up

Dec 17, 2025

ESCON2 Communication Guide

It includes performance data, specifications, standards information, connection details, pin assignments, and wiring examples. The overview below shows the documentation hierarchy and how its parts are

Jun 17, 2026

Data Center & Artificial Intelligence (AI) Connectivity

This trend paper explores how data centers are evolving to meet increasing power and cooling demands, with a focus on new design approaches and connectivity

Jan 15, 2026

FICON and ESCON considerations for System z and S/390 hosts

Before you configure your system with FICON or ESCON adapters for System z hosts, review considerations regarding the number of links, multipathing, and channel-path groups.

Aug 29, 2025

ESCON Overview

ESCON 50/5 ESCON 70/10 Depending on the ESCON variant, the following motor types can be operated – DC motor: Permanent-magnet DC motor – EC motor: Brushless, electronically commu

Apr 23, 2026

High-Speed Interconnect Solutions Evolve for Data Centers

At DesignCon 2025, Sam Kocsis, director of standards and technology at Amphenol, explained several new interconnect solutions for promoting performance, reliability, and efficiency necessary for next

May 17, 2026

1401_Welcome dd

The featured operating modes – speed control (closed loop), speed control (open loop), and current control – meet the highest requirements. The ESCON servo controllers are designed being

Nov 29, 2025

Future of High-Performance Computing and

Direct-attached CEM connectors are highlighted as a superior alternative to traditional PCIe ® riser cards. These connectors provide significant

Sep 24, 2025

ESCON and FICON CTC

If the CTC connection is either point-to-point or through an ESCON Director static connection, the LINK keyword in the CNTLUNIT statement is optional. If you do code it and the CNTLUNIT statement is

Contact Us

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