

ESCON Connector Upgrade Version vs Bandwidth Performance Comparison



Article Overview

Upgrading from ESCON to FICON or FICON Express significantly increases bandwidth, I/O throughput, and device support, delivering up to 6x higher data transfer rates and extended distance capabilities.

Bandwidth and Data Transfer Rates

- **ESCON Channels:** Traditional ESCON channels support a maximum data transfer rate of 17 MB/sec and are limited in distance to approximately 9 km without repeaters, with support for up to 1,024 devices per channel .
- **FICON Channels:** Introduced in 1998, FICON channels increased full-duplex bandwidth to 100 MB/sec, extended distance support up to 100 km, and allowed up to 16,384 devices per channel, providing a 16-fold increase in device connectivity .
- **FICON Express:** The latest generation further improves performance, sustaining line-speed transfers above 100 MB/sec for mixed read/write workloads and supporting advanced features like zHPF (High Performance FICON), which can increase raw I/O per second (IOPS) by 4.3x compared to original FICON .

Performance Improvements

- **I/O Throughput:** FICON and FICON Express channels deliver 2x or more faster performance for batch workloads (e.g., QSAM) and large database queries (e.g., DB2) compared to ESCON .
- **Backup and Batch Jobs:** FICON-attached storage systems can reduce backup wind...

Article Content

Feb 02, 2026

PA-4C-E 1-Port High-Performance ESCON Channel Port Adapter

Port Adapter Overview The HP ESCON PA is a high-speed (100 bandwidth points) port adapter for Cisco 7200 series routers,

Feb 26, 2026

Setup escon.maxonmotor Full version, including ESC

The featured operating modes – speed control (closed loop), speed control (open loop), and current control – meet the highest

Jul 07, 2026

ESCON2: Firmware Version Readme

ESCON2 devices are shipped with the latest firmware version available. New versions may feature additional or enhanced

Aug 25, 2025

Fiber Connector Types: A Complete Guide (2024)

The ESCON fiber optic connector uses 2.5mm ferrules to mate with SC or ST connectors via fiber adapters. However,

Jan 12, 2026

1301_Welcome dd

Comprehensive documentation Using the «Feature Comparison Chart», the suitable ESCON servo controller can easily be

Apr 17, 2026

A Comprehensive Justification For Migrat | PDF | Computer Science ...

This dissertation by Stephen R. Guendert provides a comprehensive justification for migrating from ESCON to FICON technology,

Sep 17, 2025

ESCON, ESCON2 product line – maxon Support

ESCON2: What makes it so special? ESCON: PWM input frequency <-> PWM output frequency? ESCON: RC Servo Set Value?

Nov 01, 2025

PA-4C-E 1-Port High-Performance ESCON Channel Port Adapter Installation ...

This document describes how to install and configure the 1-Port High-Performance Enterprise Systems Connection

May 10, 2026

Proper Sizing Analysis and Modeling For An ESCON to FICON Migration

This article examines the transition from ESCON to FICON, a protocol with significant advantages, including higher data rates and

Feb 01, 2026

Word Pro

Improved Performance: Native FICON attachment offers much higher data transfer rates than ESCON attachments. For critical data

Dec 21, 2025

ESCON2 Communication Guide

We recommend that you install a shielded, twisted pair cable to achieve good performance, even in an electrically noisy environment.

Nov 15, 2025

ESCON Feature Chart

The ESCON servo controllers are small-sized, powerful 4-quadrant PWM servo controller for the highly efficient control of permanent

Oct 07, 2025

ESCON2 Feature Chart

ESCON2 Feature Chart The ESCON2 line of products from maxon are small, powerful 4-quadrant PWM servo controllers. Their high

May 25, 2026

ESCON2 Release Notes

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Jun 21, 2026

ESCON Connector Intelligent Performance vs Bandwidth Comparison

As you can see, the z900 FICON Express represents a significant improvement in both 4K I/O per second throughput and maximum

Oct 25, 2025

Enterprise System Connectivity (ESCON) channel

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

Oct 14, 2025

ESCON Setup «Release Notes»

ESCON Studio 2.0 Revision 2 Configuration «Enable CW» and «Enable CCW» corrected. «Controller Monitor» does no longer crash

Oct 13, 2025

Chapter 3.8

3.8 FICON The Fiber Connection (FICON) is the next generation ESCON I/O technology developed by IBM Corp. to connect

Aug 24, 2025

ESCON and FICON CTC

The ESCON FCV channel uses FICONTM channel hardware and attaches to an ESCON Director which converts the channel to an

Feb 14, 2026

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

Contact Us

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