Optica's multi-channel
FICON to ESCON Protocol Converter

" Prizm allows mainframe customers to leverage all of the benefits of FICON on System z while maintaining access to ESCON and Parallel devices that are required to support key applications. This solution helps customers simplify their transition to new System z platforms, while maximizing the value of their investment in peripheral devices. "

- IBM System z Executive

FICON to ESCON Conversion: Modernize on System z - Retain access to key ESCON and Bus/Tag devices

Highlights

- Connect ESCON and B/T devices to FICON channels as you modernize on System z
- Replace aging ESCON Directors to save maintenance, power expense and valuable floor space
- Remotely locate ESCON or Bus/Tag-based tape, print, communications and database controllers by leveraging the inherent distance capabilities of FICON via ISL's or IP channel extension
- Deploy with no operational change or impact to control units, devices or associated applications
- Prizm supports all ESCON and most Bus/Tag-based devices with the addition of the ESBT module

The Prizm FICON to ESCON protocol converter from Optica Technologies provides a cost-effective solution for attaching ESCON and Bus/Tag peripherals directly to FICON channels. Prizm accepts a native FICON channel from the mainframe (CHPID type FC) and converts the protocol to native ESCON for connectivity to ESCON and/or Bus/Tag-based devices. ESCON and Bus/Tag devices are logically mapped to the FICON channel via a configuration table that is resident on Prizm. Prizm will support attachment to any ESCON device type in existence today as well as the vast majority of remaining Bus/Tag devices. Prizm allows you to protect your large investments in stable, business critical ESCON and parallel devices and applications, and provides a means to seamlessly connect those devices to FICON channels or fabrics.

Prizm supports attachment to ESCON and Bus/Tag devices that are locally attached to the mainframe as well as devices that are remotely located via Inter-Switch Links (ISLs) or IP-based channel extension solutions.

Prizm serves as a direct replacement for aging ESCON Directors, which have reached End-of-Support status from IBM. Given IBM's ESCON roadmap, Prizm is the IBM-supported and IBM-recommended solution for connectivity of your remaining ESCON and parallel devices.

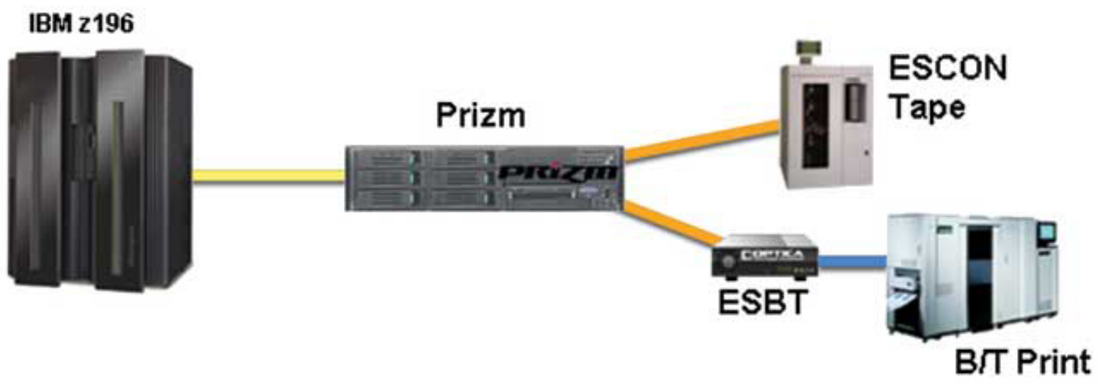
Customer Benefits

- Supports System z consolidation, optimization and modernization initiatives
- Deploys with no operational impact to ESCON or parallel devices
- Streamlines mainframe configuration and infrastructure
- Reduces maintenance, power and floor space requirements when replacing ESCON directors
- No additional device-based projects to fund and manage while upgrading your mainframe

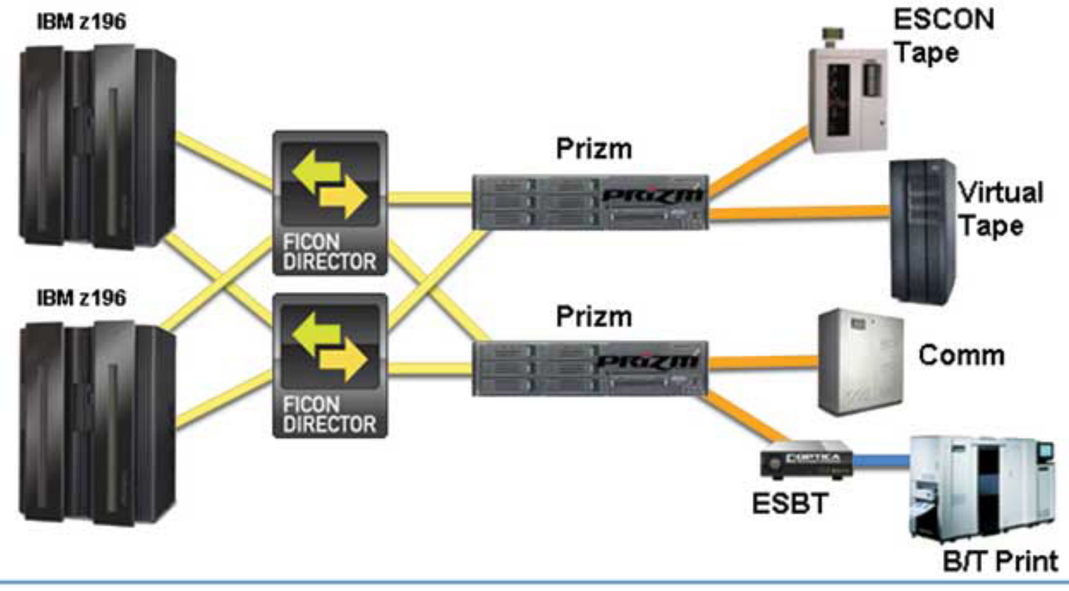
FICON Topologies Supported By Prizm:

FICON ESCON Bus/Tag

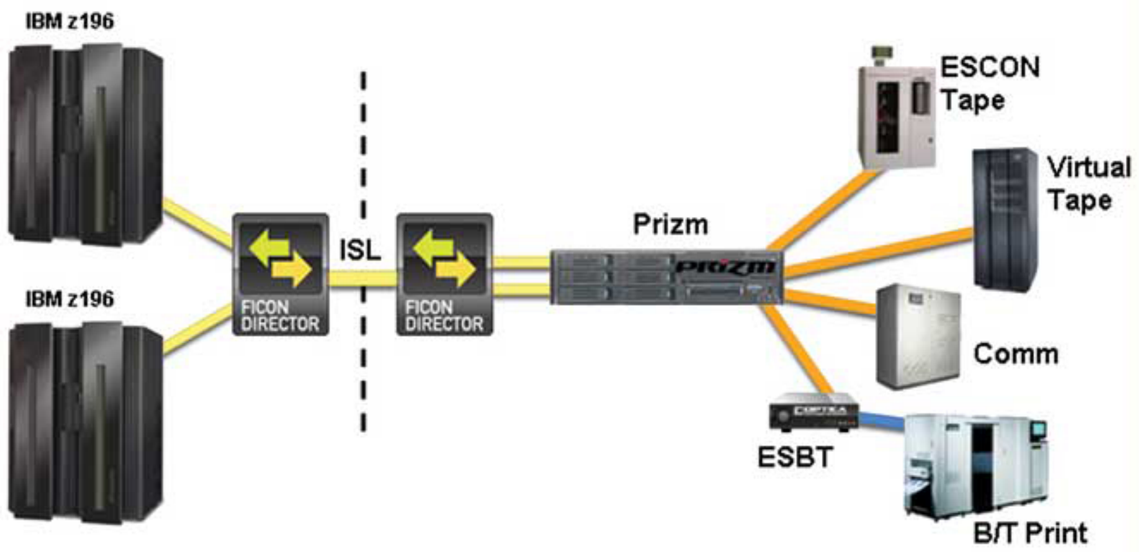
Point To Point



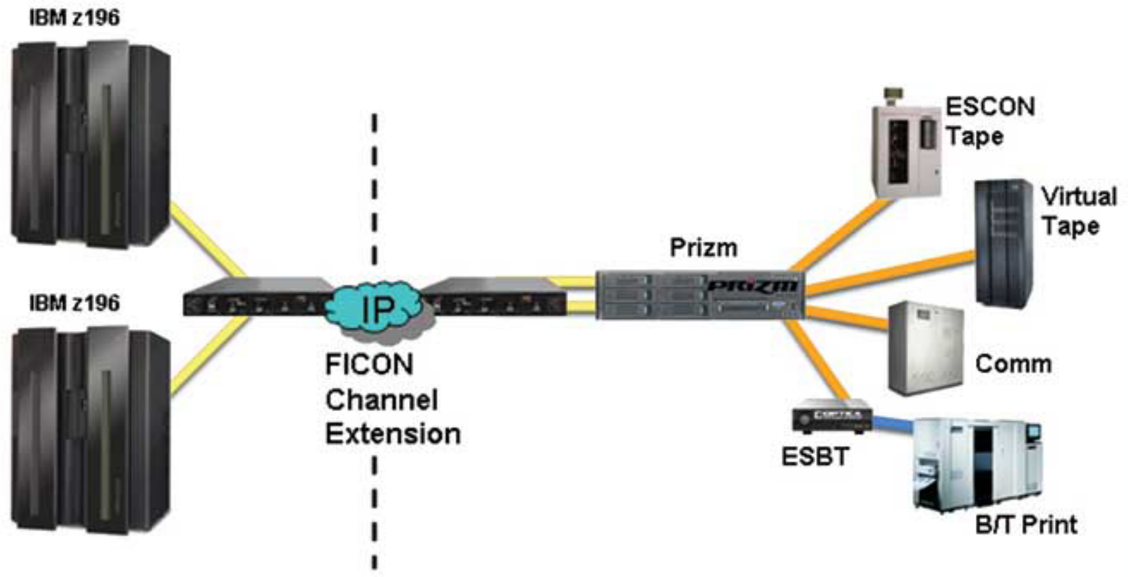
Switched



Cascaded Switch (ISL)



Channel Extended



PRIZM SPECIFICATIONS

Connectivity and Configurations

- Connects ESCON and Bus/Tag control units to native FICON channels or fabrics
- MT-RJ ESCON connectors; LC Duplex FICON connectors
- Available with Longwave or Shortwave FICON optics
- Supports 2, 4 and 8 Gb FICON on any IBM mainframe platform
- Prizm is available in the following configurations:
  Optica P/N: Prizm Configuration (FICON:ESCON)
  34800-102X - 1:2
  34800-104X - 1:4
  34800-208X - 2:8

Dimensions and Weight

- Height: 2U or 86.5 millimeters or 3.4 inches
- Width: 445 millimeters or 17.5 inches
- Depth: 746 millimeters or 29.4 inches
- Weight: Approximately 17 kilograms or 38 pounds

Accessories and Optional Features

- Every unit ships with sliding rails for 19 in. cabinet mounting
- ESCON conversion harness (MT-RJ to ESCON female) *(optional)*
- ESBT module for Bus/Tag device connectivity (P/N 34700) *(optional)*
- Extended distance support feature for IP-based FICON configurations (P/N: 34800-EXT-DIST) *(optional)*

Power and Cooling

- 100/127VAC and 200/240VAC ~ 50/60 Hertz (Hz), auto sensing current
- Unit ships with two country-specific power cords
- Input Kilovolt-amperes (kVA) (approximately): 0.66 kVA
- Dual redundant DC power supplies, 550W PFC hot-swap power modules
- IBM Calibrated Vectored Cooling™ with three redundant fans; two fan zones with N+1 fan design; each fan has two motors.

Serviceability

- Hot swappable power supply and solid state disk drives (SSD)
- Event monitoring and notifications via SMTP and/or SNMP
- Diagnostic capabilities including port loop back function
- IP/VPN remote access by Optica for remote service and support
- Multiple levels of security to enable only authorized users to perform service
- Error logging and engineering trace capabilities

Management

- Web-based user interface accessible via standard web browser application
- User-defined, multi-level password access
- User-configurable SNMP and SMTP support for event monitoring and notifications

Environmental

- Temperature: Operating: 5°C to 40°C (41.0°F to 104°F); altitude 0 to 915 m (3,000 ft)
- Humidity, Operating: 8% to 85%, maximum dew point 24°C
- Humidity, Non-operating: 8% to 80%, maximum dew point 27°C

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