

# Gemini Express Fiberoptic Multiplexer for IBM System/3x and AS/400



- Up to 56 devices supported from two controllers on a single pair of Fiber Optic cable
- The *only* fiber optic multiplexer that supports split-polling (200% speed improvement — dual option) on enhanced AS/400 WSCs
- Direct DB25 workstation controller connection on rear panel
- Compatible with *Express* and standard data rates.
- Automatic data rate detection
- Advanced noise suppression on all ports
- Does not require performance-robbing PTFs to function
- Extends AS/400 ports up to 15,000' on multi-mode fiber optic cable
- Supports both “point to point” and “multipoint” applications
- Polarity insensitive as long as host and device balun polarities are the same
- Field-replaceable universal voltage power supply
- Shielded RJ45 with any active pin configuration



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**800-328-2696 x8077**  
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## Get Maximum Throughput Potential with the Gemini Express Multiplexer

Decision Data's eight-port, fiber-optic Gemini Express Multiplexer offers the unique ability to allow up to two AS/400 controller polling groups to be transmitted over a single fiber optic pair. Controller redundancy and maximum fiber optic efficiency are obtained by multiplexing four ports each from up to two separate controllers for a total device capacity of 56 — the highest in the industry. This feature also allows all new AS/400e controllers to provide their maximum throughput potential, in either 1Mbps Optimized or 2Mbps Express mode, by transparently multiplexing the split-polling feature without requiring performance-robbing PTFs. All new IBM controllers support the split-polling feature as a means of achieving higher throughput rates, even when connected to standard legacy devices. The Gemini Express Multiplexer allows the split-polling feature to remain enabled with performance of up to 4 times greater than standard legacy 1Mbps 5250 protocol.

## Eliminate Old Twinax Bricks and Twinaxial Cabling

The Gemini Express Multiplexer has eight shielded RJ45 port connections as well as a DB25 direct-connection eliminating the need for the twinax brick and associated twinaxial cabling. Link connectivity is via ST fiber optic multi-mode connection with ability to operate in both point-to-point and multi-point ring topologies, reducing hardware requirements by up to 50%.

## Other Features

Other features include Advanced Noise Filtering, LED Port Diagnostics, Configurable UTP Pin Assignments, and a Field Replaceable wide-ranging Power Supply.

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## Specifications

<b>Number of Ports:</b>	8
<b>Data Rate:</b>	1 or 2 MBPS IBM 5250 protocol
<b>Nominal input impedance:</b>	100 ohms
<b>Interface:</b>	Shielded RJ45 and DB25
<b>Fiber Optic Connectors:</b>	ST
<b>Active Pair:</b>	Port Configurable

## Distances

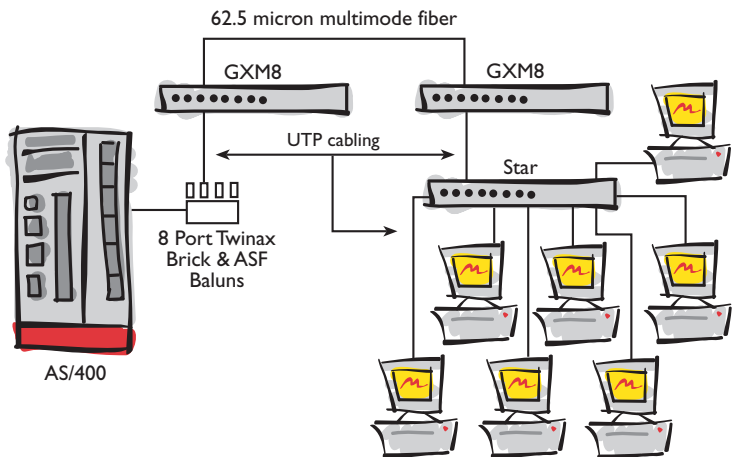
<b>Controller to Gemini multiplexer:</b>	Up to 2000 ft.
<b>Gemini multiplexer to Device:</b>	Up to 2200 ft.
<b>Fiber Optic Link:</b>	Up to 6600 ft.
<b>Fiber Optic Budget:</b>	12 dB (typical)
<b>Diagnostic LEDs:</b>	Power, port activity & mode
<b>Power:</b>	100-240VAC to +5VDC external power supply

## Temperature

<b>Operating:</b>	0 to 40 C
<b>Storage:</b>	0 to 85 C
<b>Humidity:</b>	95% non-condensing
<b>Dimensions:</b>	19" X 8.75" X 1.75" (1U)
<b>Manufacturer:</b>	Decision Data
<b>Warranty:</b>	Three years

## Ordering Information

Part No.	Description
301-2313-01	Gemini Express 8 port multiplexer with shielded RJ45s and DB25



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