

FM1540

AS/400 Multiplexer



- *Multiplexed eight/four twinaxial ports*
- *Extends terminal to processor range*
- *Direct DB-25 connection to the AS/400 processor*
- *Provides connection over coax, twinax, STP, UTP, and F/O*
- *Provides fault isolation via extensive diagnostic display*

The FM1540 is a stand-alone time-division AS/400 data multiplexer, multiplexing 8/4 IBM device channels into a single channel. The FM1540 simplifies cable requirements, reducing cabling requirements by a factor of eight/four.

The FM1540 provides connection over coax, twinax, STP, UTP, and fiber optic cable.

The FM1540 complements the FM1514 Active Star series to support star topology connections.

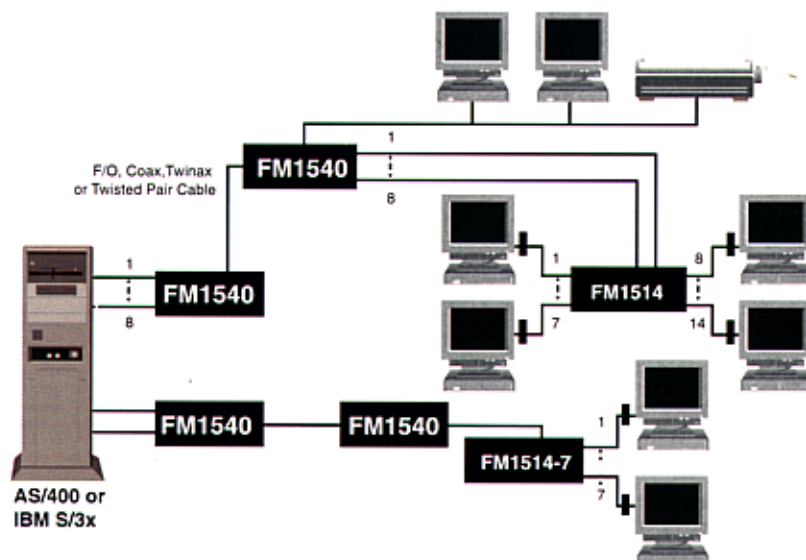
The FM1540 connects directly to the AS/400 processor's 8/4-line port, reducing the multiple twinax cables, for easy connection and cabling management. The data from the 8/4 communication ports is multiplexed over fiber optic, coax, or STP/UTP media.

On the remote side the multiplexed data is demultiplexed for distribution to up to eight daisy chain links, each supporting up to seven IBM 525X and 31XX terminals. These devices can also be connected to

the FM1540 via the FM1514 Active Star, Passive Star, or LWC for star distribution.

The AS/400 data multiplexer is fully compatible with the IBM cabling system and is completely transparent to the SW and HW, operating with the FM1514 as well as with all IBM AS/400, 3270, and Token Ring devices.

The FM1540's LED indicators provide rapid fault isolation and serviceability.



Technical Specifications

FM1540 - AS/400 Multiplexer

Interface

Processors Supported	IBM AS/400 and System 3X series
Devices Supported	IBM 525X and 31XX and plug capabilities
Data Rate	1 Mbps
Maximum Distance* (Processor to FM1540, FM1540 to FM1540 or FM1540 to last device in chain)	
Coax (RG-62 A/U)	1000m (3300 ft)
Twinax (IBM PN-7362-211)	1000m (3300 ft)
STP (IBM type 1 and 2)	1000m (3300 ft)
Fiber Optic (FM1540 to FM1540 only)	
Loss budget for 50/125mm	18dB
Loss budget for 62.5/125mm	20dB
Wavelength	850nm

* Transmission distances subject to IBM limitations

Connectors

Port	4/8 x Twinax, 1 x DB-25
Link	DPC, Twinax, F/O- ST

Physical Characteristics

Dimensions	43.8 x 4.50 x 25 cm (17.2 x 1.75 x 10 in)
Weight	4 kg (9 lb)
Installation	desktop or rack-mount

Electrical Characteristics

Line Voltage	100-120 or 200-240 VAC
Line Frequency	60 or 50 Hz
Power Consumption	23 W

Environment

Operating Temperature	0° to 40°C (32° to 104° F)
Storage Temperature	-20° to 70°C (-4° to 158° F)
Relative Humidity (non-condensing)	10-90%

Diagnostics

LED indicators	4/8 x Port Activity, 1 x Power On, and 1 x Link Activity
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Ordering Information

FM1540/FT/T	Link: F/O, Twinax Ports: 8 Twinax +DB25
FM1540/FD/T	Link: F/O + DPC Ports: 8 Twinax +DB25
FM1540/D/T	Link: DPC Ports: 8 Twinax +DB25
FM1540/T/T	Link: Twinax Ports: 8 Twinax +DB25
FM1540/FT/T-4	Link: F/O, Twinax Ports: 4 Twinax +DB25
FM1540/FD/T-4	Link: F/O + DPC Ports: 4 Twinax +DB25
FM1540/D/T-4	Link: DPC Ports: 4 Twinax +DB25
FM1540/T/T-4	Link: Twinax Ports: 4 Twinax +DB25

Specifications may change as design improvements are introduced. The user shall determine the suitability of the product for its intended use. Neither manufacturer nor seller shall be liable for any loss, damage or injury, direct or consequential, arising from the inability to use the product.

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