

Model 9302

Twinax to Fiber Optic Multiplexer IBM Systems 3/X & AS/400, & 5251 Controller



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Operation Mode:	Synchronous, half/full duplex,	n	
	1 Mbps serial bi-phase data	а	
	each port		
Input/Output Interface:	100 Ohm twinax bulkhead jack,		
	IBM protocol		
Number of Channels:	2		
Transmission Line Interface:	2 ST connector fiber optic		
Transmission Line Interface.	receptacles (SMA option)		
Data Link Chard	2 Mbps		
Data Link Speed:	2 Km (6600 ft.), (5 Km option)		
Transmission Distance:	30 microwatts into 50 micron fiber		
Transmitter Output Power:	050 memory atom (4000 mm antiam)		
System Wavelength:			
Receiver Sensitivity:	$3 \mu\text{w}$ at less than 10^{-9} bit error		
	rate		
Operating Temperature:	0° C to 50 $^{\circ}$ C		
	110/220 VAC, 50/60 Hz, 20 W		
•	detachable power cord, power		
	supply meets UL, CSA, VDE,		
	& IEC requirements		
230V Version:			
Metal Enclosure:			
	(17.8 X 14.0 X 7.6 cm)		
	Rack mount option		
Weight:	4 lbs. (1.8 Kg)		

S.I Tech Model 9302 multiplexer Bit-Driver[®] is designed to work with IBM System 3/X, AS/400, and 5251 controller using twinax cable. Model 9302 Bit-Driver is a 2 channel twinax to fiber optic transmitter/receiver full duplex multiplexer product implementing IBM Protocol. Normal operating data rate is 1 Mbps on each port.

This fiber optic Bit-Driver product eliminates many disadvantages of twinax, especially EMI/RFI, ground loops (electrical isolation with fiber), high attenuation (high signal loss), limiting distance between nodes of system, and potential lightning damage outdoors between buildings.

S.I.Tech Model 9302 is a stand alone product allowing easy change from twinax to fiber: Simply disconnect twinax cables and connect to model 9302 input/output port. Model 9302 comes with power supply and status indicators.

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Operating Distance for Fiber Optic Cable				
Fiber Size	Attenuation	Distance*	Distance*	
(Microns)	dB/Km	Meters	Feet	
62.5	4.0	2000	6600	
50	3.0	2000	6600	
10 SM**	1.0	7000	23000	

* High power option available

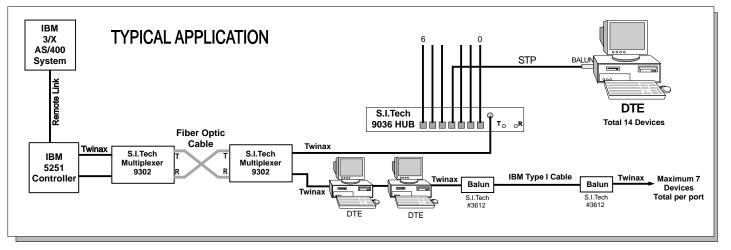
** Single Mode (1300nm) option (maximum distance depends upon IBM timeout Spec.)

Notes: S.I.Tech multiplexer can support one controller (one card from IBM 3/X and AS/400. Related products: 2836, 9304, 9308, 9328.

If other than twinax cable is used, impedance matching transformers (balun) are needed.

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UL & CSA listed. Meets FCC requirements of Class A, Part 15 Computing Devices Standard. Specifications subject to change without notice.



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