FEATURES

- Modular design for ease of maintenance, configuration flexibility and future expansion capability.
- Meets ANSI/IEEE SWC, RFI standards.
- 100% temperature cycled which minimizes infant mortality of components.

APPLICATIONS

The FSCIS common equipment can be applied as a full SONENT/SDH based multiplexer operating at 51.84 Mbps or 155.52 Mbps over fiber optic cables. By adding expansion equipment FSC2E the system can handle up to 672 or 2016 DS0 channels.



TECHNICAL SPECIFICATIONS

Network Management Capabilities: Network visibility at every node

Remote provisioning (monitor and configure) of the network Alarm logging and time stamping Manual path switching

POWER SUPPLY

POWER REQUIREMENTS:

24, 48, 125, 250 VDC, or 115 VAC

ALARMS System

Major and minor alarms

LED indicators (Yellow alarm and AIS)

and alarm relay

Power supply: SSR with one form B contact Application Modules: Alarm LED

Teleprotection modules also provide alarm relay

Alarm Relays: SSR with one form C contact

OPTICAL INTERFACE

51.84 Mbps (672 DS-0 channels) or System Rate: 155.52 Mps (2016 DS-0 channels) Connector: 1300 or 1500 nm (optional) Wavelength:

ype or riber.	Single vioue or ividitiivioue			
ptical Specs:	Tx	Rx	Optical	Typical
	Power	Power	Gain	Range
51.84 Mbps 1300 nr		-37dBm	32 dB	70 km
51.84 Mbps 1550 nr	n 0dBm	-40dBm	40 dB	110 km
155 Mbps 1300 nm	5dBm	-36dBm	31 dB	65km
155 Mbps 1550 nm	TBD	TBD	TBD	TBD

Connector: Type of Cable BNC Coaxial

Transmit Power Per TR-NWT-253 Bellcore standard

SYNCHRONIZATION

Internal clock @ headend node, Stratum 3 Line timing @ any other node per Bellcore standard

External System can be synchronized to an external BITS clock (e.g. Stratum 1)

NODE THROUGH DELAY

14 µs

PROTECTION SWITCHING TIME

< 3 ms

CONNECTORS

Screw type terminal blocks for application (channel) modules, power and alarm relay connections

CONSUMPTION

10 W for add/drop node common equipment

TYPF TESTS

FMI/RFI

RS232 Craft Interface, front panel RJ11 Diagnostics: jack running @ 9600 baud at every node

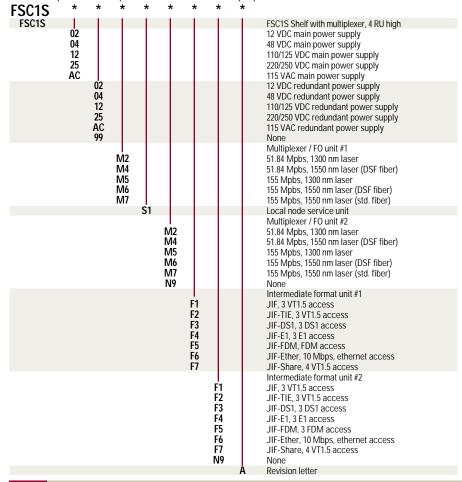
for system diagnostics, monitoring, trouble-shooting and maintenance Meets ANSI/IEEE C37.90.2 RFI Meets ANSI/IEEE C37.90.1 SWC Surge Withstand:

Specifications subject to change without notice.

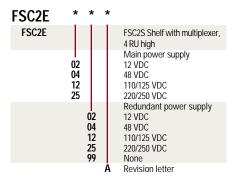
ORDERING

To order select the basic model and the desired features from the Selection Guide below.

Fiber Optic Multiplexer Common Equipment



Expansion Equipment



FSC2E Nomenclature Guidelines

- the FSC2E shelf has 13 slots available for optional modules
- one CDR or one DRC module can be selected (not both) per shelf
- a redundant power supply is recommended when CDR is selected

FSC1S Nomenclature Guidelines

- one CDR or one DRC module can be selected (not both)
- a redundant power supply is recommended when CDR is selected

Shelf Arrangement

- the nomenclature defines the common modules; the optional modules can be installed into any remaining slot
- the FSC1S shelf has 8 slots available for optional modules

Last updated June 27/00