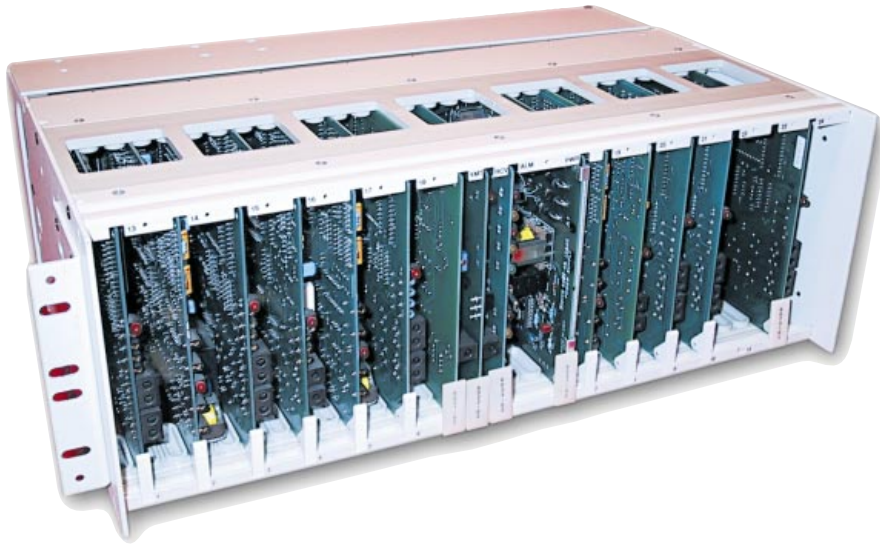




## 6100-IM T1 MULTIPLEXER™



### SYSTEM OVERVIEW

The 6100-IM is a reliable, rugged, intelligent T1 Multiplexer that has been specifically designed for a wide range of operating conditions and deployment. The low power consumption (less than 150 watts) and empirically calculated high reliability (> 1 million hours) make the 6103 a cost effective platform. The Sunrise/Sierra 6100-IM T1 Multiplexer™ is ideally suited for range applications where a mixture of telemetry, voice, data, discrete and Ethernet signals are required. Any mixture of the above signals can be accommodated in a single chassis, subject to available bandwidth.

### BENEFITS

- Low maintenance, MTBF empirically calculated at >1 millions hours based on in-service equipment
- Low power
- Number and types of signals limited only to available bandwidth
- Meets ANSI T. 403 specifications
- Compact, rugged design

### SYSTEM FEATURES

- Compact design
- High reliability
- Low power consumption, less than 150 watts
- Full range of channel modules available
- Connectorized VF wiring
- DB-25 (EIA 530) data connectors
- Environmentally hardened (0° to 50° C)
- DC or optional AC power
- Integral ring generator





## CHANNEL MODULES

### VOICE:

- **6073-01 Dual 4 wire E&M Channel Unit**  
0-23 dB pads, 150/600/1200 ohms impedance, type I&V signaling
- **6073-03 Dual 4 wire Push-to-Talk Channel Unit**  
0-23 dB pads, 150/600/1200 ohms impedance  
Transmitter keying of 'M' lead
- **6077-02 Dual 2 wire Foreign Exchange Office (FXO)**  
Loop or ground start, 600/900 ohms impedance
- **6078-01 Dual Foreign Exchange Subscriber (FXS)**  
Loop or ground start, 600/900 ohms impedance

### DATA:

- **6042-01 Dual Synchronous Channel Unit**  
2 ports, 2.4-19.2 Kbps synchronous data  
RS-232 interface
- **6044-01 56/64 Kbps X N Synchronous/Asynchronous Data Channel Unit**  
Programmable timeslots (N=1-24) rates from 0-1.536 Mbps  
Selectable RS-422, TTL or V.35 interface
- **6044-02 Programmable Telemetry Data Channel Unit**  
Rates from 0-1.468 Mbps, selectable RS-422, TTL or V.35 interfaces  
Input clock recovery circuit: Eliminates 'bit synchronizer'  
Coherent receive data and clock signals: Permits direct connection to 'decom' or receiver unit  
Auto rate detection of signals that are divisible by 2<sup>n</sup> of the programmed rate
- **6044-03 Ethernet Bridge Channel Unit**  
MAC 2 layer built-in bridge, 10BaseT user interface
- **6060-01 Port Asynchronous Channel Unit**  
Up to 7 asynchronous 0-19-2 Kbps data signals per channel unit, RS-232 interface
- **6060-02 5 Port Discrete Data Channel Unit**  
Up to 5 ports of per channel unit, contact closure to ground

## SPECIFICATIONS

DS-1 interface: Meets ANSI T. 403 specifications

### POWER REQUIREMENTS:

-48 VDC or 110 VAC (1A)

### PHYSICAL:

6.125" H x 19" W x 11.5" D

### ENVIRONMENTAL:

Temperature 0° to 50° C,  
0 to 95% humidity, non-condensing

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