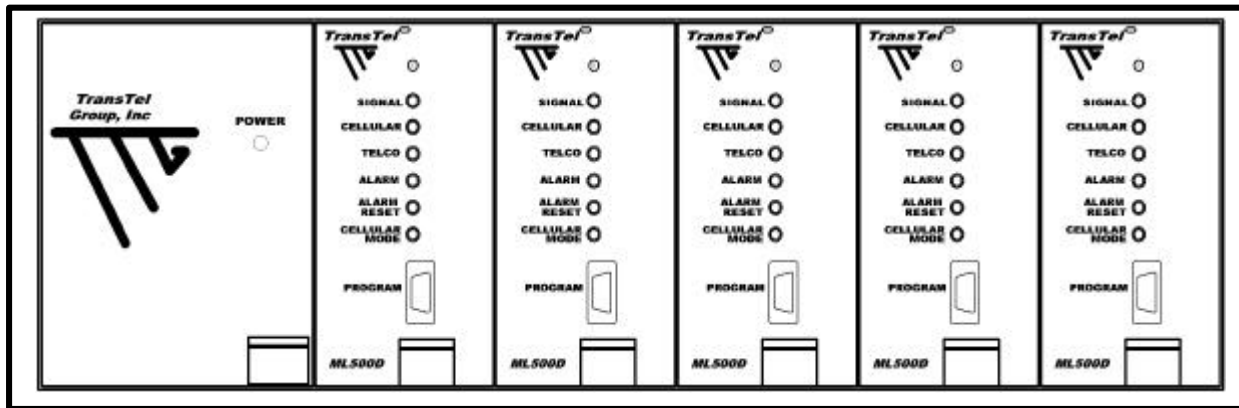


ML500D MultiLine Digital Cellular Unit



Features

- GSM or CDMA Cellular Network Access
- Uses same chassis as ML500 Analog
- 5 Voice Lines
- RJ-11 Telco Landline Port
- RJ-11 PBX/Phone Local Line Port
- Telco Line Loss Sensor for automatic cellular call backup
- RS-232 Program Port to configure and display status and signal level
- SIM Card access on module
- Alarm Contacts
- Direct swap analog (AMPS) module with GSM or CDMA digital module

Easy Upgrade to Digital

The new GSM or CDMA ML500D digital modules are compatible with the installed base of analog (AMPS) modules in the ML500 chassis. Upgrading an installed chassis is as simple as swapping an analog module with a new GSM or CDMA digital module.

Applications

The ML-500 has application in a wide variety of locations, fixed or mobile, to instantly provide up to five lines of voice telephone service. Each ML500D module has rear panel jacks for a Telco line and the local PBX/Phone so that calls may

be received or placed over a Telco landline or the cellular network. Each ML500D module has a SLIC circuit to provide loop current and ring voltage to the PBX/Phone port when placing or receiving calls over the cellular network. Either the Telco line or Cellular network can be configured as the primary calling port.

If no calls are active, incoming calls from the Telco line or Cellular network will be connected through to the PBX/Phone port. However, if a call is active, an incoming call on the other port is ignored. Outgoing calls are placed through the primary line with the other line being used as backup. A line loss sensor monitors status of the Telco line and the internal processor monitors status of the cellular network.

Front panel LEDs indicate operating status and two push button switches are used to reset alarms and select the Telco line or Cellular network as the primary path for outgoing calls. Signal strength and cellular network status is available through the Program port. The SIM card socket is accessible by removing the module from the chassis. Alarms contacts on the rear panel can be used to monitor fail conditions. The ML500D may be ordered for 120Vac, 220Vac or 48Vdc power input.

Specifications**Front Panel****Power Module**

LED Indicator (1): Power(G)

ML500D Module

LED Indicators (4): Signal(G), Cellular(Y), Telco(G), and Alarm(R).

Pushbutton Switch (2): Alarm Reset and Cellular or Telco Primary Line select

Program Port: DB9, 38.4kbps, N81, to configure operating modes and read status.

Mechanical: Physical dimensions are identical to the ML500 analog modules.

Rear Panel**Power Module**

Input Connector: Standard AC connector for AC input, terminal block for DC input.

Alarm Contact Isolated dry contact closes for alarm condition.

ML500D Module

Antenna TNC 50 ohm Connector for antenna, dual-band GSM or CDMA on each module

Telco Port RJ-11 Connector for local telco line to place and receive voice calls over local telco service.

PBX/Phone RJ-11 Connector for local PBX or phone. Internal relays switch this port to the Telco line or to the cellular radio through an internal SLIC circuit.

General

SLIC: Subscriber Loop Interface, 5 REN.

Size: 16" W x 9" D x 3.5" H

Temperature: -20C to +50C operating.

Power: 110VAC, 48Vdc, 10W

Ordering Information

MCAC Chassis for ML500

MPSAC 115Vac power supply for ML500

MPS2AC 220Vac power supply for ML500.

MPSDC 48Vdc power supply for ML500

ML500D-G GSM Transceiver Module for ML500

ML500D-C CDMA Transceiver Module for ML500; specify cellular carrier.

Notes:

The PentaLink Antenna Combiner operates only at the lower band (800/900Mhz) of the dual band GSM and CDMA cellular network. When upgrading an ML500 analog unit with a PentaLink, operation of digital modules is restricted to the lower band.

Specifications subject to change without notice.