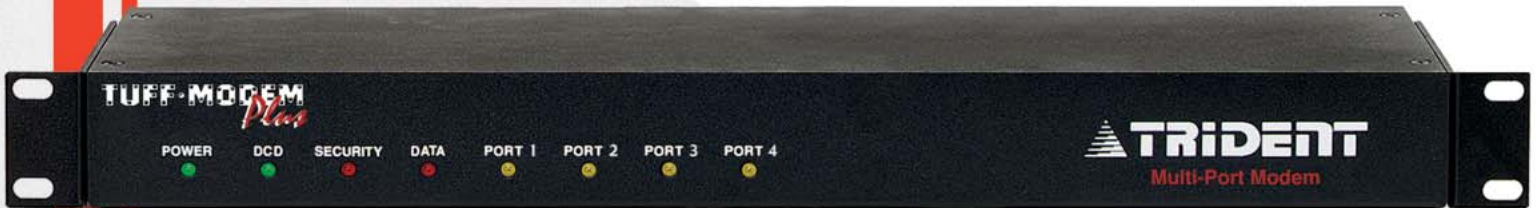


TUFF-MODEM[®] *Plus*

- Supports Multiple Devices
 - Zero Lock-up = Total Up-time
 - Protective Filters and Circuits
 - Interactive Programming Help
 - Baud Rate Adjustable by Port
- Ruggedized Chassis
- Easy Integration
- Programmable Ring Counter



Multi-Port Site and Office Modem

The environment at a remote communications site is notorious for hostile conditions. From sweltering heat to sub-zero temperatures, humidity, dust and lightning. The reliability of Trident Micro Systems' Tuff-Modem Plus - Site and Shop Modem ensures constant up-time in communicating with your remote system.

Lock-up Eliminated

The Tuff-Modem Plus is designed with special watchdog circuitry which monitors the modem's micro-controller in order to prevent common modem lock-up problems that occur with standard off-the-shelf modems. This eliminates the frustration of traveling to your site to reset an ordinary modem.

Protective Filters and Circuits

Along with supervisory circuitry, the Tuff-Modem Plus is designed with EMI filters and lightning protection circuits to help protect the unit from lightning or voltage transients that may occur at tower sites.

Remote Relay Control

The Tuff-Modem Plus has a 2 Amp N.O. relay that can be used to remotely control equipment. This relay can be activated by simply calling the Tuff-Modem Plus and accessing the relay control. The relay control is password protected to prevent accidental enable/disabling of the relay. The Tuff-Modem Plus will remember the status of the relay should power be removed from the unit. When power is restored, the relay will return to its previously programmed state.

Ruggedized Chassis

Tuff-Modem Plus, with its ruggedized chassis is designed to endure the hardships of the remote site while offering support for up to FOUR individual DTE devices.

Remote Control Relay

An internal relay is provided with switchable contact rated up to 2 Amps. The relay may be activated by accessing the modem to turn devices on or off at a site.

TUFF-MODEM[®] *Plus*

Part No. 300-240

Easy Integration

The Tuff-Modem Plus may be integrated into your system quickly and easily. Four RS-232 ports can interface up to four DTE devices. Two RJ-11 phone jacks provide for line in and line out to telephone.



The Tuff-Modem Plus will interface to a standard telephone line and standard ITU-RS-232 DTE equipment.

Security

When the Tuff-Modem Plus security option is enabled, only another Tuff-Modem Plus at your shop, properly encrypted, can communicate data to the site Tuff-Modem Plus. A unique two key code expands into 4 digits when displayed. The two keys must match for successful communications between the modems.

When the two modems connect, all data is encrypted and de-encrypted with this code. A standard off-the-shelf modem will be unable to transfer data with a Tuff-Modem Plus in secure mode.

Specifications

Power:	12-16 Volts DC. 300mA @ 12V.
Telephone Line:	600 Ohms impedance.
Answer/Originate Line Levels:	-10 DBm
DTMF Encode Levels:	0 DBm
RS-232 Hardware Support:	DCD, DTR, RTS, CTS, TXD, RXD
Tuff II site Modem Ports:	4 RS-232 DCE ports.
Tuff II Office Modem Ports:	1 RS-232 DCE port.

The Tuff-Modem Plus will support the following ITU-T Standards:

- ITU-T V.32bis, V.32
(14400, 12000, 9600, 7200, 4800bps)
- ITU-T V.22bis, V.22
(2400, 1200bps)

**TRIDENT**
MICRO SYSTEMS

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