FEATURES

- **Two STAEFA SM2 TTL repeater ports**
- **STAEFA's SM2 TTL communication to RS-232**
- **Transformer isolation onboard**
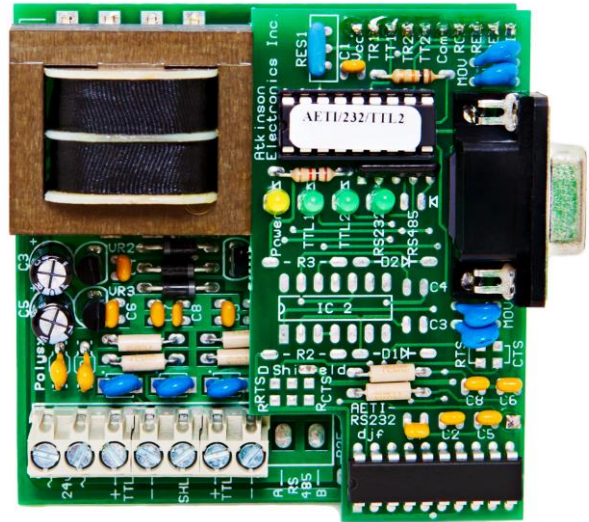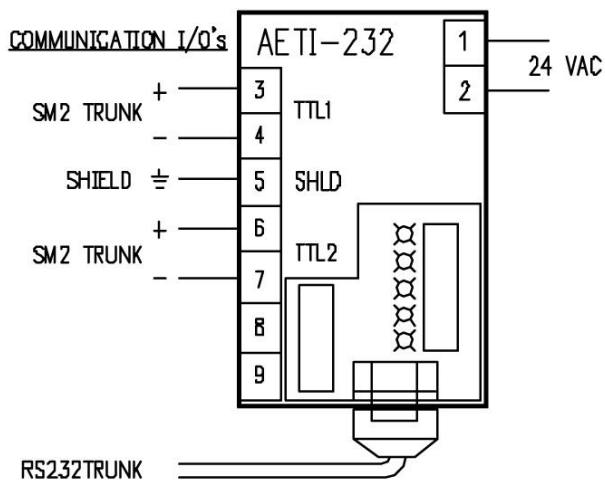
APPLICATIONS

- **Convert STAEFA's Talon Network Manager's RS-232 to STAEFA's SM2 TTL communication format**
- **Convert Tridium's network manager's RS-232 to STAEFA's SM2 TTL communication format**

DESCRIPTION & OPERATION

The AETI-232 is a TTL to TTL to RS-232 repeater module. It was designed to interface between STAEFA's Smart II communication trunk and STAEFA's Talon Network Manager or Tridium's Jace Network Manager using the Smart II Driver. The AETI-232 repeats the communication information it sees on any of the three ports (either TTL or RS-232) to the other two ports (either TTL or RS-232). The AETI-232 has two TTL ports allowing additional quantities of Smart II controllers to operate on a Network Manager RS-232 trunk.

The AETI-232 uses an on-board isolation transformer to provide three isolated 12VAC sources for powering the three voltage regulators for each of the communication ports and the embedded micro controller. The micro controller monitors the three I/O ports and performs the hand-shaking between the TTL ports and the RS-232 port. Each of the TTL ports are fused with a PolySwitch resettable fuse.
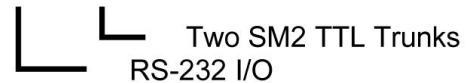
WIRING CONFIGURATION

SPECIFICATIONS

SIZE:	3" W x 3" L x 1.5" H
MOUNTING:	3" W RDI snap track (supplied)
POWER:	24VAC ± 10%, 50/60Hz 3.75VA
TRUNK I/O's:	STAEFA's SM2 TTL and RS-232 Optional RS-485 ½ duplex format
TRUNK CAPACITY:	Approximately 32 Smart II devices/ TTL
BAUD RATES:	300 to 2400 baud
MAXIMUM LENGTH:	TTL trunk 2,500 feet RS-232 50 feet
TRUNK WIRE:	300 to 2400 baud
RS-232 PORT:	DB9 Female connector
AMBIENT TEMP:	TTL trunk 2,500 feet

ORDERING INFORMATION

AETI-232/TTL2
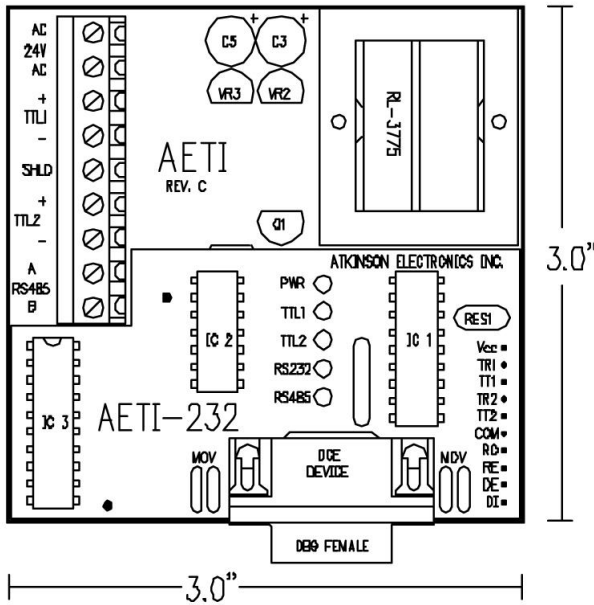
Two SM2 TTL Trunks
RS-232 I/O

Dual SM2 TTL to RS-232 interface module

OTIONAL CABLE INFORMATION

CBL-DB9-Ext. - DB9M to DB9F 6' Extension cable
CBL-DB9-RJ45 - DB9M to RJ45 6' Adapter cable

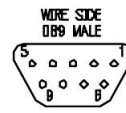## PHYSICAL CONFIGURATION

CABLE CONFIGURATION

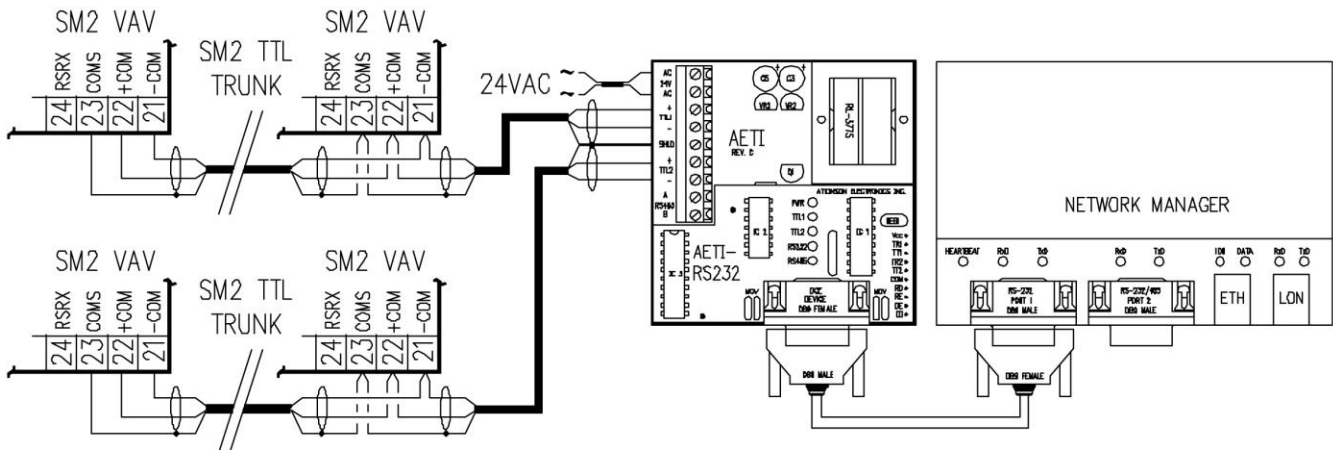**CBL-DB9 Ext**   **DB9M-DB9F Null Modem**
For connecting to AETI

CBL-DB9/JR45   **DB9M-Rj45 Adapter Cable**

1	DCD	Date carrier detect	5
2	RXD	Receive data	3
3	TXD	Transmit data	6
4	DTR	Data terminal ready	8
5	GND	Ground	4
6	DSR	Data set ready	1
7	RTS	Request to send	7
8	CTS	Clear to send	2
9	Not used on the JACE-4		

APPLICATION 1
CONVERSION OF RS-232 TO STAEFA'S TTL COMMINICATION TRUNK

The AETI-232/TTL2 is configured to convert either STAEFA's Talon or Tridium's Jace Network Manager RS-232 output (with Smart II Driver) to two SM2 TTL communication trunks. The AETI-232 is configured as a DCE device and requires a DB9 M/F extension cable (pin for pin) to be able to connect to the Network Manager's RS-232 Port (DTE device) and communicate properly.