

# TRACER<sup>®</sup> Protection Switch



## Radio Redundancy

### Product Features

- Radio Link Protection
- 2.4 GHz and 5.8 GHz ISM Band Operation
- Single point link control
- Low Insertion Loss
- 1U, 19" Rack Space
- Industry-leading five-year warranty

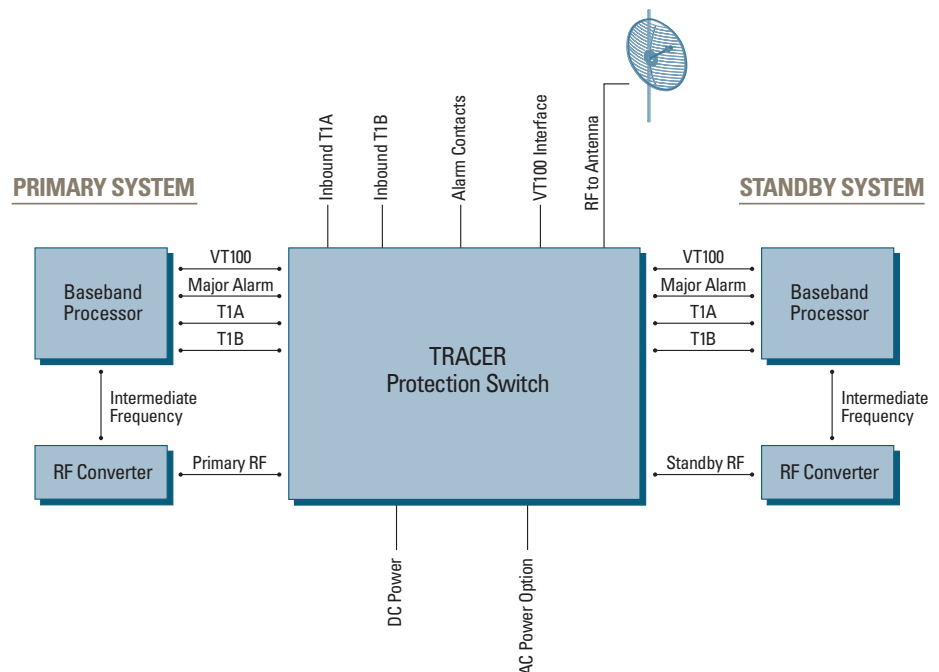
The TRACER Protection Switch is designed to provide TRACER users the comfort of radio redundancy for critical links. When placed between two rackmount TRACER units, the TRACER Protection Switch provides monitored, automatic hot-standby switching from one radio in an alarm condition to another standby radio that is using the same antenna. This standby function keeps the link operational when a primary radio fails, and allows the user to restore the primary service at their own convenience.

The TRACER Protection Switch will operate with TRACER T1 spread spectrum equipment in either the 2.4 GHz or 5.8 GHz Industrial, Scientific, and Medical (ISM) bands. Provisioning and diagnostics are performed using a VT100 terminal emulator. A single

VT100 connection through the TRACER protection switch provides access to both the primary and secondary TRACER units.

The TRACER Protection Switch is housed in a compact 1U (1.75 inch) chassis designed to be co-located with the TRACER Baseband Processor and Rackmount Radio Frequency Converter. The Protection Switch can be deployed at one or both ends of a TRACER microwave link.

Like TRACER digital spread spectrum microwave radios, the TRACER Protection Switch is designed and manufactured by ADTRAN with the most current technology, and incorporates ADTRAN's ISO 9001 manufacturing processes, to provide the highest levels of reliability and durability.





**ADTRAN, Inc.**

Attn: Enterprise Networks  
901 Explorer Boulevard  
Huntsville, AL 35806

P.O. Box 140000  
Huntsville, AL 35814-4000

256 963-8000 voice  
256 963-8699 fax  
256 963-8200 fax back

**General Information**  
800 9ADTRAN  
info@adtran.com  
www.adtran.com

**Pre-Sales  
Technical Support**

800 615-1176 toll-free  
application.engineer@adtran.com  
www.adtran.com/support

**Where to Buy**

877 280-8416 toll-free  
channel.sales@adtran.com  
www.adtran.com/where2buy

**Post-Sales  
Technical Support**

888 423-8726  
support@adtran.com  
www.adtran.com/support

**ACES Installation &  
Maintenance Service**

888 874-ACES  
aces@adtran.com  
www.adtran.com/support

**International Inquiries**

256 963 8000 voice  
256 963-6300 fax  
international@adtran.com  
www.adtran.com/international

**For the regional office  
nearest you, visit:**

www.adtran.com/where2buy



I.S. EN ISO 9001  
ADTRAN is a  
ISO 9001 registered company.



TL 9000  
ADTRAN is a  
TL 9000 registered company.

Printed in the U.S.A.  
61280300L1-8D May 2002  
©2002 ADTRAN, Inc. All rights reserved.

# TRACER Protection Switch

## Radio Redundancy

## Product Specifications

### SYSTEM

#### Insertion Loss

- 0.8603 dB, 2.4 GHz TX
- 0.8603 dB, 2.4 GHz RX
- 1.327 dB, 5.8 GHz TX
- 1.327 dB, 5.8 GHz RX

#### Digital Interface

- RJ-45

#### ASCII Interface

- Data Rate: 9600 bps
- Data Bits: 8
- Parity: None
- Stop Bits: 1
- Terminal Emulation: VT100

#### RF Interface

- To Radio: SMA
- To Antenna: Type N, female
- Impedance: 50Ω

### Power

- Input Voltage: 21 to 60 vdc, either polarity referenced to ground
- DC Connector: 3 pin screw clamp terminal block
- AC Adapter: 100 to 200 vAC, 50 or 60Hz (with optional AC adapter)
- AC Adapter Connector: 3 pin DIN
- Power Consumption: <20 Watts

### Switching

- 1 to 59 seconds, User Programmable

### Mechanical and Environmental

- Width: 16.75" (for 19" EIA rack), 48cm
- Height: 1.75" (1U), 4.5cm
- Depth: 9.5", 29cm
- Weight: 4.6 lbs., 2.2Kg
- Humidity: 95%, non-condensing
- Operating Temperature: -25° to 65° C

### Status and Alarm

- Front Panel: Yellow—Main active, Standby active, Red—Major alarm, Standby major alarm

## Ordering Information

Equipment	Part #
T1 Protection Switch	1280300L1
Optional Power Supply	1360DSK24VL1



Specifications subject to change without notice. All registered trademarks and trademarks mentioned in this publication are the property of their respective owners.