

TRACER[®] 4305



Compact License-free DS-3 Radio

Product Summary

- Broadband wireless connectivity up to 45 Mbps
- Rapid return on investment
- Economical and reliable alternative to wireline
- Key applications:
 - Cellular backhaul
 - Service provider network extension
 - Corporate networks and campus connectivity
 - Redundant link
 - Disaster recovery
- Small footprint – 1U, 19-inch rack space
- No license required per FCC rules part 15.407
- 5.725 to 5.825 GHz U-NII band operation
- Remote loopback and configuration
- Point-to-point, up to 15 miles
- Five-year warranty

ADTRAN's TRACER 4305 is a **license-free digital microwave radio that provides economical, wireless, full-duplex DS-3 connectivity for service providers and corporate networks.**

The TRACER 4305 DS-3 wireless solution offers 45Mbps of broad-band connectivity in many locations at a significantly lower cost than competing products. The monthly cost savings generate a rapid return on investment while lowering overall communications costs. Additionally, in applications where quick installation and time-to-market are essential, or existing high bandwidth infrastructure is inadequate or nonexistent, the TRACER 4305 will provide rapid deployment and reliable carrier-grade connectivity.

TRACER 4305 DS-3 system is ideally suited for many applications such as backhauling cellular traffic, extending a service provider's network and presence, interconnecting corporate networks within a campus community, and providing a redundant link or rapid deployment for disaster recovery.

Because TRACER operates in the license-free U-NII band, delays and expenses associated with frequency coordination and licensing are eliminated, allowing rapid delivery of high-bandwidth connectivity to those areas of the network that require it. Locations previously unreachable by existing copper or fiber networks can now be seamlessly integrated into both public and private networks.

TRACER 4305's outstanding performance enables excellent link distances with high confidence and less expensive infrastructure than other license-free DS-3 transport alternatives. Full-duplex data transmission is provided and 99.999% carrier-class reliability can be achieved with proper link engineering design.

TRACER 4000 series radios are only 1 RU and are excellent wireless connectivity solutions for applications where cabinet or rack space is limited.

The TRACER series is intended for use in point-to-point situations, and features VT100 management of both ends of the link without impacting DS-3 throughput. Management functions include control, status, and alarm capabilities.

By using the latest technology and incorporating ISO 9001 manufacturing processes, ADTRAN has designed the TRACER series to provide the highest levels of reliability and durability. As a result, TRACER series products are supported by an industry-leading five-year warranty and an award-winning technical support team.



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Product Specifications

Transmitter

- **Output power:** +5 to +20 dBm (3 to 100 milliwatts)
- **Frequency band:** 5.725 to 5.825 GHz
- **Channel bandwidth:** 50 MHz

Receiver

- **Receive level threshold (10⁻⁶ BER):** -78 dBm
- **Maximum receive level:** -30 dBm
- **Nominal receive level:** -50 dBm
- **Frequency range:** 5.725 to 5.825 GHz
- **Channel bandwidth:** 50 MHz

Frequency plan

- **Plan A center frequencies:** TX 5.750 GHz, RX 5.800 GHz
- **Plan B center frequencies:** TX 5.800 GHz, RX 5.750 GHz

RF Interface

- **Antenna connector:** female type-N
- **Impedance:** 50 ohms

Digital Interface

- **Capacity:** full DS-3
- **Data rate:** 44.736 Mbps
- **Interface type:** DS-3
- **Connectors:** Female BNC, 75 ohms
- **Line code:** B3ZS
- **Line buildout:** 0 to 225 feet (DSX-3), 225 to 450 feet
- **DS-3 monitoring:** M13 or C-bit parity
- **Alarms:** AIS, LOS, LOF, RAI, Idle signal
- **Loopbacks:** Line and link

User Interface

- **Front panel:** Status LEDs
- **Diagnostics:** Line loopback button, self-test LED
- **Test points:** RSSI, transmit power
- **Alarm contacts:** RF carrier loss, normally open and closed

Terminal Interface

- **Function:** Menu-driven user interface, monitor and control of local and remote end of link, password protection, event history
- **Emulation:** VT100
- **Data rate:** 9600 bps
- **Physical interface:** Female DB25
- **Electrical interface:** RS-232

Mechanical and Environmental

- **Operating temperature:** -25°C to 65°C
- **Width:** 16.75" (for 19" EIA rackmounting – hardware included for both 19 and 23-inch bays)
- **Height:** 1.75" (1U)
- **Depth:** 9.5"
- **Humidity:** 95%, non-condensing
- **Weight:** 7 lbs.

Power

- **Input voltage:** 21-63 VDC, either polarity referenced to ground
- **Power consumption:** 25 Watts, maximum
- **DC connector:** 2-pin plug in

Ordering Information

Equipment	Part #
TRACER 4305, Freq A	12804305L1A
TRACER 4305, Freq B	12804305L1B
AC Power Supply	1280650L1



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