

TR-49 Series

All-in-One Advanced AP/PtP/CPE Model

Tranzeo® is pleased to announce our all new TR-49 Series 4.9 GHz* products. These are integrated fully functioning radios. That means these units can be configured as an **Access Point**, a **Point to Point** bridge, or a **Client Adapter (CPE)**.

All New Overall Features: Dual Ethernet Ports

This allows you to daisy-chain radios at your installation sites (depending on power requirements). Perfect for back to back point to point scenarios. Also great for installing peripheral Power over Ethernet devices like weather monitoring or security cameras.

More Robust Routing Features Tunneling Protocol Support

Includes support for tunneling protocols such as VPN, PPTP, RSA, etc.

Low Power Requirements

Excellent for solar and other alternative power source installations. TR-49 Series requires only 5.5 Watts.

All New Access Point Features: Wireless Distribution System (WDS)

WDS allows Access Points to be wirelessly connected to each other while also servicing clients.

Wi-Fi Protected Access (WPA)

WPA improves on the security features of WEP. It includes improved data encryption (AES) and user authentication.

WPA and WEP LEDs

Outside LEDs allow you to easily see if WEP or WPA is activated on your Access Point.

All New Client Adapter (CPE) Features: Alignment LEDs

Now you can align your client and point to point installations without having to log into the radio. Get visual signal strength at a glance by using this great new feature.

Controllable High Gain Output

All radios have +13 dBm of output. Power can be scaled back for closer installations to avoid noise issues and to meet local regulatory requirements.





TR-49 Series Specifications

| Features | | | | | |
|---|---|---------------|---------|----------------|-----------|
| Standard | OFDM (BPSK, QPSK, 16-QAM, 64-QAM) | | | | |
| Frequency Range | 4940 MHz to 4990 MHz | | | | |
| Channel Bandwidths | 5, 10, 20 MHz* | | | | |
| Radio Mode | Access Point (AP) / Point to Point (PXP) / Customer Premise Equipment (CPE) | | | | |
| Communication Method | Half-Duplex | | | | |
| Transmit Power | +13 dBm max | | | | |
| Receiver Sensitivity | -65 dBm @ 54Mbps | | | | |
| Polarization | Horizontal or Vertical | | | | |
| Antennas | | | | | |
| Model | Type | Wind Load (N) | | 3 dB Beamwidth | |
| | | 100 mph | 125 mph | Azimuth | Elevation |
| TR-49-N° | N-Connector | 105 | 164 | N/A | N/A |
| TR-49-20° | 20 dBi Panel (internal) | 105 | 164 | 13° | 16° |
| TR-49-V16° | 16 dBi Vertical Sector (external) | 171 | 266 | 90° | 7° |
| TR-49-H16° | 16 dBi Horizontal Sector (external) | 171 | 266 | 88° | 6° |
| Management | | | | | |
| Remote Configuration | Based on IP Address | | | | |
| Device Management | Windows Utility, Web-Based Management | | | | |
| Protocol Supported | TCP/IP | | | | |
| Security | 40/64 bits and 128 bits WEP encryption, Media Access Control address filter (MAC), WPA and WPA2 (TKIP/AES) encryption | | | | |
| Ethernet Connector | 10/100 base T (Water Tight RJ-45) | | | | |
| Operating Temperature | -55°C to +55°C | | | | |
| Warranty | 5 year for parts /3 year for parts and labour** | | | | |
| Dimensions | | | | | |
| TR-49-N / TR-49-20 / TR-49-V16 / TR-49-H16 | 13.22" X 10.28" X 3.50" (radio only) | | | | |
| Power Supply | | | | | |
| Universal | AC Power Adapter (US, UK, EU Snap In Plugs) Input: 120-240 VAC ~ 50-60 Hz, 0.6 A Output: 18.0 VDC, 1.1 A | | | | |
| Optional | AC Wall Plug Input: 120V 60Hz, Output: 24V, 1000mA | | | | |

Operation in the 4940-4990 MHz band is restricted to U.S. Operation in this range only and is restricted to the Public Safety bands. Use of these bands is restricted to entities that meet the requirements listed the FCC Part 90.20 Public Safety Pool and are properly licensed to operate a transmitter in the Public Safety band in accordance with Part 90Y of the technical rules can operate in the 4940-4990 MHz band. FCC regulations state in Part 90, operation in the 4.9 GHz band requires frequency coordination before the system can be operated.

Specifications are subject to change without notice.

* 5, 10, 20 MHz channels available only in radio product built after January 10, 2007.

• f (FCC) and W(World) Models - Subject to local regulations.

**3 and 5 Year warranties only apply to radio products built after December 1, 2006 and December 31 2007, respectively.

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