

Advanced All-in-One AP/PxP/CPE

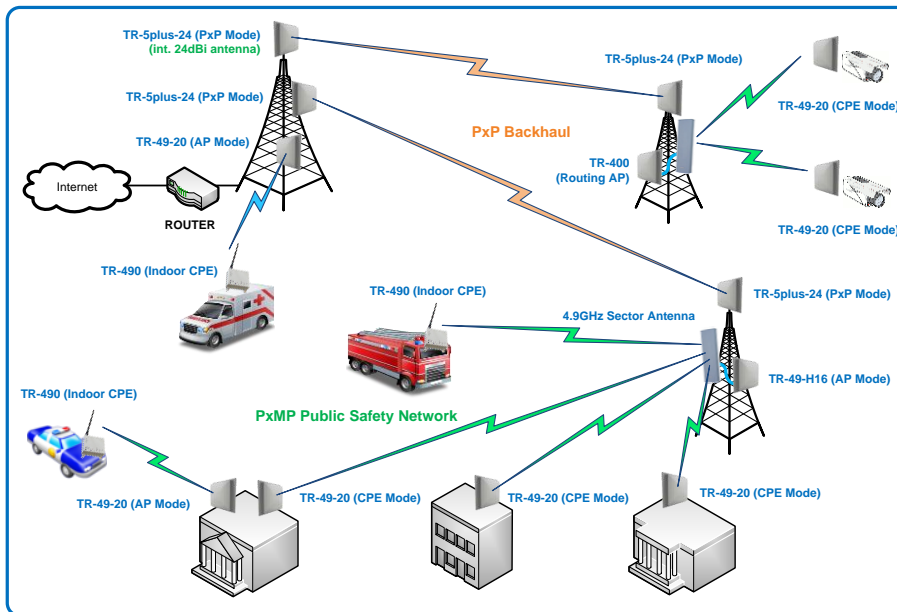
Tranzeo's **TR-49** series of outdoor units are specifically designed for operation in the 4.9GHz Public Safety band. These versatile and cost-effective units can be configured as an Access Point (AP), Point-to-Point (PxP), or as a Customer Premise Equipment (CPE), making them ideal for rapid deployment in a broad range of public safety application including security and policing, video conferencing, and Voice-over-IP (VoIP).

The **TR-49** series of products feature a high performance radio and advanced networking and management capabilities including NAT Routing, StreamEngine™ QoS, WEP/WPA/WPA2 Security, and Bandwidth Throttling. The TR-49 product line includes an all-in-one unit with integrated 20dBi directional panel antenna, as well as an N-type connectorized model for supporting an external antenna.

The ruggedized weatherproof design meets IP67 & NEMA Type 4X environmental standards, and is suitable for conditions ranging from -60 °C to +60 °C. The **TR-49** series is also backed by an industry-leading **5-Year Parts and 3-Year Parts & Labour Warranty** and **Lifetime Technical Support** for worry-free network operation.

Applications

- Public Safety
- Internet Service
- Video Conferencing
- Security and Surveillance
- Municipal Network
- Voice-over-IP (VoIP)



Key Features

- IEEE 802.11a Compliant
- AP/PxP/CPE Modes
- Up to +13dBm Transmit Power with Adjustable Output
- 5.5W Solar Friendly Power Draw
- 5/10/20MHz Selectable Channels
- Bandwidth Throttling
- Built-in StreamEngine™ QoS
- WEP/WPA/WPA2 Security
- TCP/IP, UDP, TFTP, SNMP v2c
- NAT, PPPoE, VPN Pass-through
- Integrated 20dBi Panel Antenna
- Daylight Visible Alignment LED's
- Dual Ethernet Ports
- Power-over-Ethernet (POE)
- Web-based Management Tools
- Remote Firmware Upgrade
- Weatherproof Enclosure

About Tranzeo Wireless Technologies™

Tranzeo Wireless Technologies Inc. (TSX:TZT) leads the wireless broadband industry for value, by producing high-performance wireless network equipment with a low cost of ownership and unparalleled service allowing communities and businesses to communicate without boundaries. Since the company's inception in 2000, Tranzeo's optimum cost effectiveness, premium quality and responsive support have attracted a growing number of devoted dealers and distributors worldwide.

Tranzeo Wireless Technologies Inc.

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Radio Interface					
Standards	IEEE 802.11a				
Frequency Range	4940 – 4990 MHz ⁽¹⁾				
Channel Bandwidths	5MHz, 10MHz, 20 MHz Selectable				
Radio Modes	Access Point (AP), Point-to-Point (P×P), Customer Premise Equipment (CPE)				
Transmit Power	+13 dBm (max) with Adjustable Output				
Receiver Sensitivity	-65 dBm @ 54 Mbps				
Data Rate & Modulation	48/54 Mbps QAM-64, 24/36 Mbps QAM-16, 12/18 Mbps QPSK, 6/9 Mbps BPSK				
Receive Signal Strength	Noise and Receive Signal Levels (dBm) and Daylight Visible Alignment LED's				
Antenna Polarization	Horizontal or Vertical				
Antenna Options and Model Information					
Model No. ⁽²⁾	Type	Wind Load (N)		Beamwidth	
		100 mph	125 mph	Horizontal	Vertical
TR-49-Nf/W	N-Female Connector	105	164	N/A	N/A
TR-49-20f/W	20 dBi Panel (internal)	105	164	13°	16°
TR-49-V16f/W	16 dBi Vertical Sector (external)	171	266	90°	5°
TR-49-H16f/W	16 dBi Horizontal Sector (external)	171	266	90°	6°
Networking and Management					
Device Management	Cross-Platform Utility, Web-Based Management, Remote Configuration and Firmware Upgrades (via IP), TFTP, SNMP v2c (MIB-II, 802.11 MIB, Tranzeo MIB), Import/Export/Save Settings Profiles				
Protocols	TCP/IP, UDP, NAT, DHCP Client/Server, PPPoE, WDS, VPN Pass-Through, Multiple MAC Bridging				
Quality of Service (QoS)	StreamEngine™ QoS				
Bandwidth Management	Bandwidth Throttling (Bridge and Router Modes)				
Security	40/64-bit and 128-bit WEP Encryption, WPA/WPA2 (TKIP/AES/Enterprise), MAC address filtering				
Ethernet	2 x 10/100Base-T (Water-Tight RJ-45) ⁽³⁾				
Max DHCP Clients	255				
Power Supply					
Power Requirement	5.5 Watts (max)				
Power Supply	Power over Ethernet (PoE)				
DC Adapter	18VDC/1.1A (INPUT: 120-240VAC~ 50-60Hz, 0.6A) f-Model: Fixed UL Plug (US only) W-Model: Snap-In Plugs for US, UK, and EU included				
Mechanical and Environmental					
Radio Dimensions	13.22" x 10.28" x 3.50" (336mm x 261mm x 89mm)				
Radio Weight	2.4 lbs (1.1 Kg)				
Installation Hardware	PoE Injector with Built-in Surge Protection, DC Adapter, Ethernet Boot Cover with Weatherproof Gasket, L-Bracket with KEP Nuts and U-Bolt for Pole Mount				
Environmental Rating	IP67 and NEMA Type 4X				
Operating Temperature	-65°C to +60°C				
Storage Temperature	-40°C to +85°C				
Compliance and Warranty					
Export Control	HTC 8517.69.0000, ECCN 5A002 ENC, ECL 1-5.A.2.A.1				
Compliance & Approvals	RoHS, FCC Part 15 Class B, FCC Part 90 Class B, Industry Canada				
Warranty	5-Year Parts / 3-Year Parts and Labour ⁽⁵⁾				

⁽¹⁾ Operation in the 4.9GHz Public Safety band is restricted in the US, Canada, and Mexico. In the US, use of this band is restricted to entities that meet the requirements listed in 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. ⁽²⁾ f: FCC Model (for use in the USA only), W: World Model (subject to local regulatory requirements) ⁽³⁾ Dual-Ethernet boot cover kit sold separately. ⁽⁴⁾ LMR cable is included with the TR-49-N model only. ⁽⁵⁾ 1-Year Parts and Labour warranty for products built before December 1, 2006, and 3-Year Parts and Labour warranty for products built after December 1, 2006 and before December 31, 2007. Specifications are subject to change without notice. StreamEngine is a trademark of Ubicom. Tranzeo and the Tranzeo logo are registered trademarks of Tranzeo Wireless Technologies Inc.