

Advanced All-in-One AP/PxP/CPE

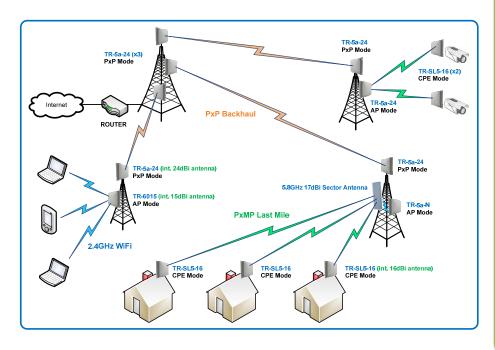
Tranzeo's **TR-5a** Series of 5GHz Tri-Mode Outdoor units can be configured as AP, PxP Bridge, or CPE. These versatile units feature high performance radios and advanced networking and management capabilities including NAT Routing, StreamEngineTM QoS, Security, Bandwidth Throttling, and Dual Ethernet ports.

The ruggedized weatherproof all-in-one design meets IP67 and NEMA Type 4X environmental standards, requiring minimum installation and maintenance costs in conditions ranging from -60 $^{\circ}$ C to +60 $^{\circ}$ C.

Tranzeo's leading edge engineering facilities combined with our state-of-the-art inhouse manufacturing ensures highest quality products at very competitive prices. The **TR-5a** family of products is RUS accepted with "Buy American" status.

Applications

- Remote Data Acquisition
- Internet Service
- Video Transmission
- Security and Surveillance
 Private Networks
- WiFi Hot Spots





Key Features

- IEEE 802.11a Compliant
- AP/PxP/CPE Wireless Modes
- Up to +13dBm Transmit Power with Adjustable Output
- 5, 10, or 20MHz Channel BW
- 7W Solar Friendly Power Draw
- Bridge/Router Network Modes
- Bandwidth Throttling
- Built-in StreamEngineTM QoS
- WEP/WPA/WPA2 Security
- NAT, PPPoE, VPN Pass-through
- Dual Ethernet Ports
- Power-over-Ethernet (PoE)
- Daylight Visible Alignment LED's
- IP67 & NEMA Type 4X Enclosure
- Easy to Install All-In-One Units with Integrated Panel Antennas
- Web-based Management Tools
- Remote Firmware Upgrade

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.

19473 Fraser Way, Pitt Meadows, BC, Canada V3Y 2V4 • T: 604.460.6002 • F: 604.460.6005 • Toll Free: 1.866.872.6936 • www.tranzeo.com



	Radio Inter	face				
Standards	IEEE 802.11a	IEEE 802.11a				
Frequency Range	5170 – 5875 MHz					
Channel Bandwidths	5MHz, 10MHz, 20 MHz					
Radio Mode	Access Point (AP), Point-to-Point (PxP), Customer Premise Equipment (CPE)					
Transmit Power	+13 dBm (max) with Adjustable Output					
Receiver Sensitivity	-73 dBm @ 54 Mbps, -85 dBm @ 6 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 M	lodel information				
(1)	_	Wind L	oad (N)	Beamwidth		
Model No. ⁽¹⁾	Туре	100 mph	125 mph	Horizontal	Vertical	
ΓR-5a-N f/W	N-Female Connector	72	112	N/A	N/A	
FR-5a-20 f/W	20 dBi Panel (internal)	105	165	8.7°	7.7°	
ΓR-5a-24 f/W	24 dBi Panel (internal)	182	285	8.7°	7.7°	
TR-5a-26 f/W	26 dBi Grid (external)	149	232	6°	6°	
TR-5a-29 f/W	29 dBi Dish & Radome (external)	350	547	6°	6°	
TR-5a-32 f/W	32 dBi Dish & Radome (external)	787	1230	4°	4°	
TR-5a-V15 f/W	15 dBi Vertical Sector (external)	52	82	120°	 5°	
ΓR-5a-V17 f/W	17 dBi Vertical Sector (external)	52	81	60°	5°	
TR-5a-H16 f/W	16 dBi Horizontal Sector (external)	105	164	90°	6°	
11. 34 11 101, 11	Networking and N		101	30		
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/Relay, 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) (2)					
Max DHCP Clients	255					
	Power Sup	oply				
Power Consumption	7 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 Plu	gs for US, UK, and	d EU included		
	Mechanical and En	vironmental				
	TR-5a-N/26/29/32/V15/V17/H16	TR-5a-20		TR-5a-24		
Dimensions (radio only)	10.38" x 8.63" x 3.00"	13.22" x 10.28" x 3.50"		16.18" x 14.43" x 3.50"		
	(264mm x 219mm x 76mm)	(336mm x 261mm x 89mm)		(411mm x 367mm x 89mm)		
Dimensions (radio package)	21" x 13" x 4"	24" x 13" x 4"		28" x 17" x 4"		
	(540mm x 330mm x 100mm)	(610mm x 330mm x 100mm)		(720mm x 430mm x 100mm)		
Weight (radio package)	4.65 lbs (2 Kg)	6.30 lbs (3 Kg)	9 lbs (4 Kg)	, ,,		
nstallation Hardware	PoE Injector with Built-in Surge Protection, DC Adapter, Ethernet Boot with Weatherproof Gasket, L-Bracket with KEP nuts and U-Bolt for Pole Mount, 3ft LMR400 Cable (4)					
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, Industry Canada, CE!, EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 213					

⁽¹⁾ f: FCC Model (for use in the USA only), W: World Model (subject to local regulatory requirements) (2) Dual-Ethernet boot cover kit sold separately (3) LMR cable is included with the TR-5a-N model only.