

### Advanced All-in-One CPE

Tranzeo's **TR-CPQ Series** of 2.4GHz Outdoor Customer Premise Equipment (CPE) units feature high performance radios and advanced networking and management capabilities including NAT Routing, StreamEngine™ QoS, Security, and Bandwidth Throttling.

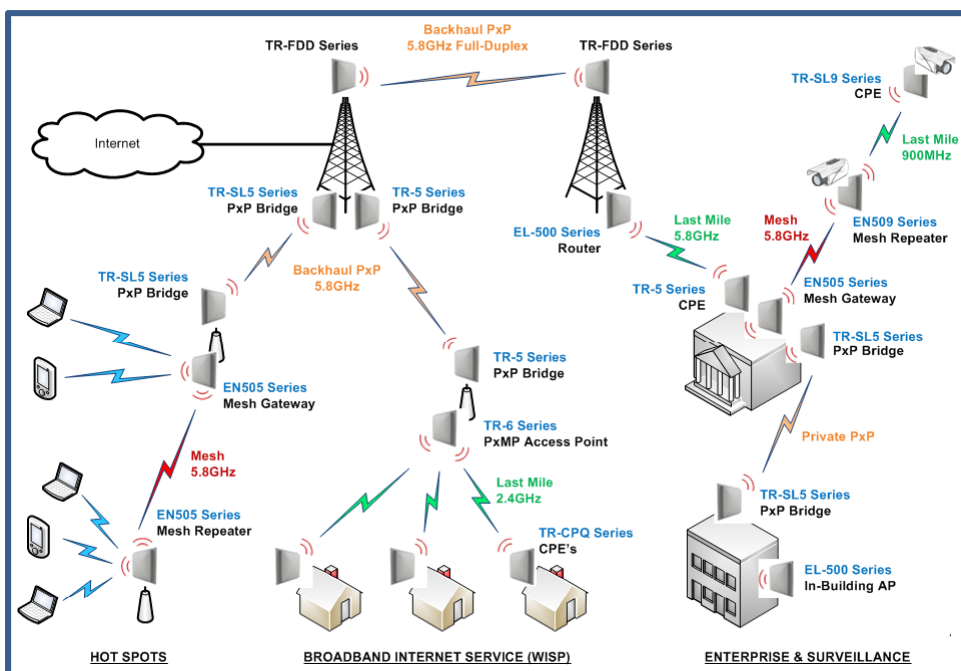
The ruggedized weatherproof all-in-one design meets IP67 and NEMA Type 4X environmental standards, requiring minimum installation and maintenance costs in conditions ranging from -60 °C to +60 °C. The **TR-CPQ** is also backed up by an industry-leading **5-Year Parts and 3-Year Part & Labour Warranty** and **Lifetime Technical Support** for worry-free network operation.

Tranzeo's leading edge engineering facilities combined with our state-of-the-art in-house manufacturing ensures highest quality products at very competitive prices. The **TR-CPQ** family of products are 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 802.11b/g Compliant
- Up to +23dBm Transmit Power with Adjustable Output
- 5, 10, or 20MHz Channel BW
- 4W Solar Friendly Power Draw
- Bandwidth Throttling
- Built-in StreamEngine™ QoS
- WEP/WPA/WPA2 Security
- NAT, PPPoE, VPN Pass-through
- Power-over-Ethernet (PoE)
- Daylight Visible Alignment LED's
- Easy to Install All-In-One Unit
- Rugged & Weatherproof Design
- Web-based Management Tools
- Remote Firmware Upgrade

### About Tranzeo Wireless™

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](http://www.tranzeo.com)

## Technical Specifications

Radio Interface					
<b>Standards</b>	IEEE 802.11b/g <sup>(1)</sup>				
<b>Frequency Range</b>	2400 – 2483.5 MHz				
<b>Channel Bandwidths</b>	5MHz, 10MHz, 20MHz				
<b>Radio Mode</b>	Customer Premise Equipment (CPE)				
<b>Transmit Power</b>	+23 dBm (max) with Adjustable Output				
<b>Receiver Sensitivity</b>	<b>b-mode</b>	-85 dBm @ 11 Mbps, -90 dBm @ 1 Mbps			
	<b>g-mode</b>	-72 dBm @ 54 Mbps, -89 dBm @ 6 Mbps			
<b>Data Rate &amp; Modulation</b>	<b>b-mode</b>	5.5/11 Mbps CCK, 2 Mbps DQPSK, 1 Mbps DBPSK			
	<b>g-mode</b>	48/54 Mbps QAM-64, 24/36 Mbps QAM-16, 12/18 Mbps QPSK, 6/9 Mbps BPSK			
<b>Receive Signal Strength</b>	Noise and Receive Signal Levels (dBm) and Daylight Visible Alignment LED's				
<b>Antenna Polarization</b>	Horizontal or Vertical				
Antenna Options and Model Information					
Model No. <sup>(2)</sup>	Type	Wind Load (N)		Beamwidth	
		100 mph	125 mph	Horizontal	Vertical
TR-CPQ-8f/W	8 dBi Panel (internal)	105	165	20°	33°
TR-CPQ-19f/W	19dBi Panel (internal)	182	285	15°	16°
Networking and Management					
<b>Device Management</b>	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				
<b>Protocols</b>	TCP/IP, UDP, NAT, DHCP Client/Server, PPPoE, VPN Pass-Through, Multiple MAC Bridging				
<b>Quality of Service (QoS)</b>	StreamEngine™ QoS				
<b>Bandwidth Management</b>	Bandwidth Throttling (Bridge and Router Modes)				
<b>Security</b>	40/64-bit and 128-bit WEP Encryption, WPA/WPA2 (TKIP/AES), MAC address filtering				
<b>Ethernet</b>	1 x 10/100Base-T (Water-Tight RJ-45)				
Power Supply					
<b>Power Consumption</b>	4 Watts (max)				
<b>Power Supply</b>	Power over Ethernet (PoE) - PoE Injector with Surge-Protection included				
<b>DC Adapter</b>	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					
	<b>TR-CPQ-8</b>				<b>TR-CPQ-19</b>
<b>Dimensions (radio only)</b>	10.38" x 8.63" x 3.00" (26.4cm x 21.9cm x 7.6cm)			16.18" x 14.43" x 3.50" (41.1cm x 36.7cm x 8.9cm)	
<b>Dimensions (package)</b>	21" x 13" x 4" (54cm x 33cm x 10cm)			28" x 17" x 4" (54cm x 33cm x 10cm)	
<b>Weight (package)</b>	4.65 lbs (2 Kg)			9 lbs (4 Kg)	
<b>Installation Hardware</b>	Mounting Bracket (1), Kept Nut/Washer (8), U-Bolt with 2 Nuts (1), Ethernet Boot (1)				
<b>Environmental Rating</b>	IP67 and NEMA Type 4X				
<b>Operating Temperature</b>	-65°C to +60°C				
<b>Storage Temperature</b>	-40°C to +85°C				
Compliance and Warranty					
<b>Export Control</b>	HTC 8517.69.0000, ECCN 5A002 ENC, ECL 1-5.A.2.A.1				
<b>Compliance &amp; Approvals</b>	RoHS, FCC Part 15 Class B, Industry Canada, CE, EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 213				
<b>Warranty</b>	5-Year Parts / 3-Year Parts and Labour <sup>(3)</sup>				

<sup>(1)</sup> g-mode available only in products built after January 10, 2007 <sup>(2)</sup> f: FCC Model (for use in the USA only), W: World Model (subject to local regulatory requirements) <sup>(3)</sup> 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.