

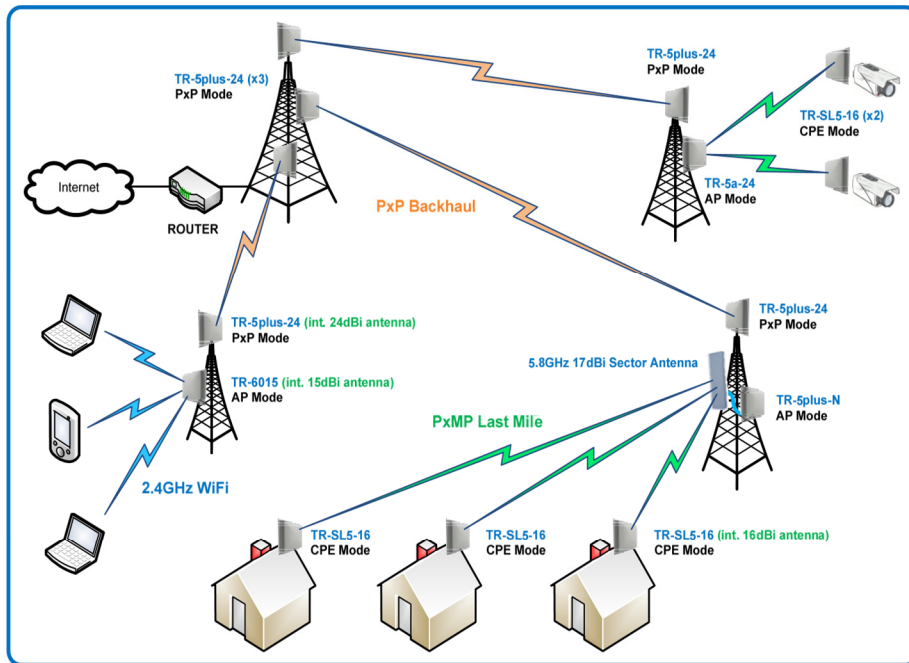
Advanced All-in-One AP/PxP/CPE

The Kintronics TVIP-5Plus series of 5 GHz High Power 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, StreamEngine™ 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 C to +60 C. The TVIP-5plus is also backed by an industry leading 5 Year Parts and 3 Year Part & Labor Warranty and Lifetime

Technical Support for worry free network operation.

This leading edge engineering combined with our state-of-the-art in-house manufacturing ensures highest quality products at very competitive prices. The TVIP-5plus family of products is RUS accepted with "Buy American" status.



Key Features

- IEEE 802.11a Compliant
- AP/PxP/CPE Wireless Modes
- Up to +23dBm Transmit Power with Adjustable Output
- 5, 10, or 20MHz Channel BW
- 7W Solar Friendly Power Draw
- Bridge/Router Network Modes
- Bandwidth Throttling
- Built-in StreamEngine™ 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

Radio Interface					
Standards	IEEE 802.11a				
Frequency Range	5170 – 5875 MHz				
Channel Bandwidths	5MHz, 10MHz, 20MHz				
Radio Mode	Access Point (AP), Point-to-Point (PxP), Customer Premise Equipment (CPE)				
Transmit Power	+23 dBm (max) with Adjustable Output				
Receiver Sensitivity	-76 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. ⁽¹⁾	Type	Wind Load (N)		Beamwidth	
		100 mph	125 mph	Horizontal	Vertical
TR-5plus-Nf/W	N-Female Connector	72	112	N/A	N/A
TR-5plus-24f/W	24 dBi Panel (internal)	182	285	8.7°	7.7°
TR-5plus-26f/W	26 dBi Grid (external)	149	232	6°	6°
TR-5plus-29f/W	29 dBi Dish & Radome (external)	350	547	6°	6°
TR-5plus-32f/W	32 dBi Dish & Radome (external)	787	1230	4°	4°
TR-5plus-V15f/W	15 dBi Vertical Sector (external)	52	82	120°	5°
TR-5plus-V17f/W	17 dBi Vertical Sector (external)	52	81	60°	5°
TR-5plus-H16f/W	16 dBi Horizontal Sector (external)	171	267	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/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 Port	2 x 10/100Base-T (Water-Tight RJ-45) ⁽²⁾				
Max DHCP Clients	255				
Power Supply					
Power Requirement	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 Plugs for US, UK, and EU included				
Mechanical and Environmental					
	TVIP-5plus-N/26/29/32/V15/ V17/H16	TVIP-5plus-20		TVIP-5plus-24	
Dimensions (radio only)	10.38" x 8.63" x 3.00" (264mm x 219mm x 76mm)	13.22" x 10.28" x 3.50" (336mm x 261mm x 89mm)		16.18" x 14.43" x 3.50" (411mm x 367mm x 89mm)	
Dimensions (radio package)	21" x 13" x 4" (540mm x 330mm x 100mm)	24" x 13" x 4" (610mm x 330mm x 100mm)		28" x 17" x 4" (720mm x 430mm x 100mm)	
Weight (radio package)	4.65 lbs (2 Kg)	6.30 lbs (3 Kg)		9 lbs (4 Kg)	
Installation 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 ⁽³⁾				
Environmental Rating	IP67 and NEMA Type 4X				
Operating Temperature	-65°C to +60°C				
Storage Temperature	-40°C to +85°C				

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