



[TNA-303L-65 Datasheet](#)

Outdoor 60 GHz PTP & PTMP Fixed Wireless Solutions

Learn more at www.tachyon-networks.com

Applications

Sub-7GHz offload

Because the sub-7GHz spectrum is scarce and prone to interference, the TNA-300 series models are perfect for offloading clients within range, leaving the low bands for hard-to-reach customers.

Deploying fiber-like service

The TNA-300 series product family can deliver multi-Gigabit speeds to up to 32 clients per sector at a fraction of the cost of deploying fiber.

High speed point-to-point

Use the TNA-300 series products to easily create point-to-point connections between buildings in urban environments.

High bandwidth video surveillance

The TNA-300 series units feature a proprietary TDMA scheduling protocol which is perfect for video surveillance networks requiring high-capacity upload bandwidth.

*Max distance using channels 5/6.

Key Features

Fiber-like speeds using the 60GHz band

1 Gbps can be achieved and distances of up to 3+ km (PTP) and 2+ km (PTMP) without trenching, permits, or licenses.

Upper-band support

All models support the full 60GHz band, including channels 5 and 6 (57-71 GHz), enabling longer links and increased co-location opportunities.

Ultra-compact design

The TNA-303L features an ultra-compact design which can blend into any surroundings and features extremely low wind loading.

Best overall affordability

The low cost of the TNA-300 series product family, combined with high subscriber density and quick installation, greatly decreases total cost of ownership for service providers.

Maximum Connection Distance



60 GHZ SPECS

Operating modes	Station, PTP (software configurable).
Max EIRP	54dBm (regulatory dependent)
Link encryption	AES 128 + GCMP
Frequency & supported channels	Full band: 57-71 GHz: channels: 1-6 Half channels: 1-12 (see notes on support site about half channel support)
Channel size options	Full (2 GHz), half (1 GHz) (see notes on support site about half channel support)
Station scheduling	TDMA: dynamic scheduling mechanism
Beam steering	8° x 8°
Duplexing	TDD

SOFTWARE SPECS

Max MTU size	7900 b
Networking mode	Transparent bridge
VLAN capabilities	Data VLAN (in station mode) & management VLAN
Other features	Traffic shaping (station mode), DHCP snooping, device discovery, speedtest, and more
IPv4/IPv6 support	Both are supported
Management	Web interface, SNMP v2 & v3, SNMP traps, & RESTful API (SSH available upon request)

HARDWARE SPECS

Interfaces	1x 1G ethernet, 1x USB-C for aiming
Mount	Pole mount included
PoE input power	Active PoE 38-57VDC (passive injector included)
Max power consumption	15W
Certifications	FCC: Z9W-TNA-303L; IC: 11468A-TNA303L
Operating temperature	-30°C - 55°C
Base Unit dimensions & weight	Height: 5" / 13cm, Width: 5" / 12 cm, Depth: 4" / 10cm, 15 oz / 425 g
LEDs	Ethernet link status, wireless status, signal level, & power