



TNA-303L Datasheet

Outdoor 60 GHz AP, 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-303L series can deliver 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 without the interference challenges inherent with sub-7GHz options.

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 400m (PTP) with no aiming and 2+ km (PTMP) without trenching, permits, or licenses.

Upper-band support

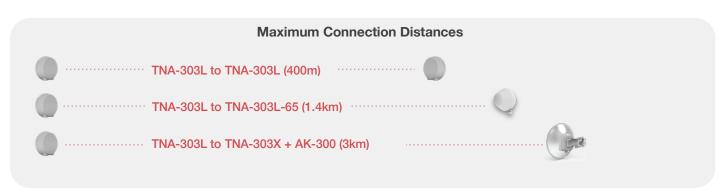
All models support the full 60GHz band, including channels 5 and 6 (57-71 GHz), enabling longer links and increased co-location opportunities.

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 TNA-303L is the lowest cost full-band product on the market, combining high subscriber density and quick Installation. This combination greatly decreases total cost of ownership for service providers.



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60 GHZ SPECS

Operating modes	AP, Station, PTP (software configurable).
Max EIRP	38dBm (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	90° x 50°
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 Type-A 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; CE; UKCA
Operating temperature	-30°C - 55°C
Base Unit dimensions & weight	Height: 5" / 13cm, Width: 5" / 12 cm, Depth: 1.85" / 4.7cm, 15 oz / 425 g
LEDs	Ethernet link status, wireless status, signal level, & power

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