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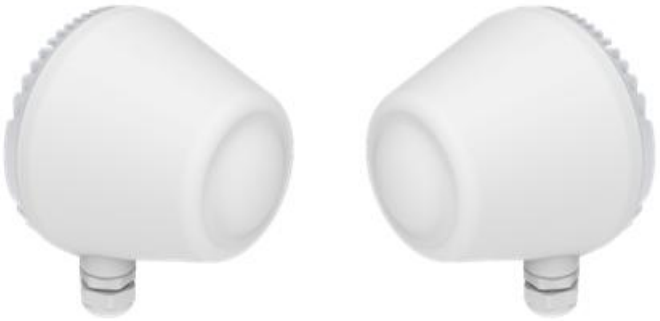

TNA-303L-65-LIB Datasheet

Outdoor 60 GHz PTP “Link in a Box” Kit

Learn more at www.tachyon-networks.com

Overview

The TNA-303L-65-LIB is a complete, pre-paired point-to-point (PTP) wireless bridge solution featuring two TNA-303L-65 units factory-configured for seamless, unique PTP connectivity. This "Link in a Box" kit delivers fiber-like performance with minimal setup, ideal for rapid deployment in urban, campus, or remote environments. Each kit includes two ultra-compact radios, pole mounts, PoE injectors, and all necessary cabling—ready to deploy out of the box with no additional configuration required.

Applications

Sub-7GHz offload

Because the sub-7GHz spectrum is scarce and prone to interference, the TNA-300 series models are perfect for offloading links demanding both low and high capacity, leaving the low bands for hard-to-reach places.

Deploying fiber-like service

The TNA-303L-65-LIB is perfect for delivering fiber-like services without the costs of trenching, permitting, and time delays.

High speed point-to-point

Use the TNA-303L-65-LIB to instantly establish secure, high-capacity PTP connections between buildings, campuses, or sites in urban environments—no pairing or alignment tools needed beyond basic line-of-sight setup.

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.

Key Features

Fiber-like speeds using the 60GHz band

1 Gbps can be achieved and distances of up to 3+ km (PTP) 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-65 features an ultra-compact design which can blend into any surroundings and features very low wind loading.

Near-Zero Interference and Easy Deployment

Leverage 60GHz mmWave spectrum for virtually interference-free performance. The "Link in a Box" kit includes everything needed for quick PTP setup, reducing deployment time by up to 50% compared to individual units.

Best overall affordability

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

*Max distance using channels 5/6.

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60 GHZ SPECS

Operating modes	PTP Master + PTP Slave (uniquely pre-paired).
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	8º x 8º
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 (PER UNIT)

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
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

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