

TQ2400 SERIES

Outdoor Wireless LAN Solution

AT-TQ2468

Outdoor access point/ repeater/
CPE Ethernet client

AT-TQ2461

Outdoor access point and CPE
Ethernet client

AT-TQ2410

CPE Ethernet client

Overview

Allied Telesis' outdoor fixed wireless solutions are designed for business applications that require robust, reliable and high-speed connectivity. These implementations are highly suitable for Voice over IP (VoIP) applications or data connectivity that requires up to 108Mbps.

The feature rich access points provide reliable solutions which enable new and existing setups like government agencies, service providers and enterprises the ability to extend their networks at minimum costs.

More Cost Effective

The AT-TQ2468 (500mW) or ATTQ2461 (100mW) can be deployed as an access point providing wireless coverage for AT-TQ2410; as bridge client or customer premise equipment (CPE). With the AT-TQ2468 and AT-TQ2461 allowing up to 250 wireless associations and 50 concurrent users, it promises the best return of investment.

Connectivity

The TQ2400* series can be deployed in a point-to-point or point-to-multipoint line of sight environment. By adapting various combinations of antenna configurations, a maximum distance of 25km coverage can be achieved. For ease of reference, please refer to Tables 1 and 2 for a summary of the distance range and performance (exact range and performance are subject to environment).

Table 1: Point-to-Point Connection (IEEE 802.11g)

Master Antenna	Client Antenna	No. of Antenna	Dist (km)	Throughput
TQ2468 (24dBi)	TQ2468 (24dBi)	One at primary	25km	3Mbps
TQ2468 (24dBi)	TQ2468 (24dBi)	One at primary	10km	18Mbps
TQ2468 (24dBi)	TQ2410 (14dBi)	One at primary	5km	9Mbps
TQ2461 (24dBi)	TQ2461 (24dBi)	Single	10km	12Mbps
TQ2461 (24dBi)	TQ2410 (14dBi)	Single	6km	5Mbps

Table 2: Point-to-Multipoint Connection (IEEE 802.11g)

Master Antenna	Client Antenna	No. of Antenna	Dist (km)	Throughput
TQ2468 (24dBi)	TQ2468 (24dBi)	One at primary	25km	3Mbps
TQ2468 (24dBi)	TQ2468 (24dBi)	One at primary	10km	18Mbps
TQ2468 (24dBi)	TQ2410 (14dBi)	One at primary	5km	9Mbps
TQ2461 (24dBi)	TQ2461 (24dBi)	Single	10km	12Mbps

Key Features

- Industrial grade casing
- Up to 25km range with External Antenna
- Up to 108Mbps (Turbo Mode)
- IEEE 802.3af compliant
- Wireless Isolation between wireless clients
- Remote Access Point Association Control
- MAC address Access Control

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Wireless Radio Characteristics

IEEE 802.11g Wireless Radio

Frequency Band: 2.4000GHz ~ 2.4835GHz

Radio Type

IEEE 802.11b (11Mbps) and IEEE 802.11g (54Mbps)

Channels

11 Channels (USA/Canada)

13 Channels (Singapore, Europe except France)

14 Channels Japan

Modulation Technique

OFDM, CCKD, QPSKD, BPSK

Transmit Power Output

AT-TQ2468: 27dBm, 500mW

AT-TQ2461 and AT-TQ2410: 20dBm, 100mW

Data Rate

108, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1Mbps

Wireless Features

IEEE 802.11g compliant radio

Up to 108Mbps wireless rate at turbo mode

RF power control

Support seamless roaming within the same subnet between access points

Management

Web-based management

IP address discovery

Software (Viper Quick Start)

Firmware upgradable through web-server and telnet

Support SNMP v1, v2c

Security

Support static WEP up to 152bits encryption

MAC address control

WPA, WPA2, RADIUS server for EAP-TLS, EAP-TTLS and

EAP-PEAP (in access point mode)

WPA-TKIP (AES and TKIP)

Wireless to Wireless user isolation

Power Specification

Power Adapter

18V~48V

Power Consumption

AT-TQ2468: Typical 6.5W,

11.0W max

AT-TQ2461 and AT-TQ2410: Typical 6.5W,

7.0W max

Environment

Operating Temperature

-30°C to 60°C

Relative Humidity Temperature

(Operational)

20% ~ 90% (non-condensing)

Storage Temperature

AT-TQ2468: -35°C to +90°C

AT-TQ2461 and AT-TQ2410: -20°C to +75°C

Storage Humidity

95% max (non-condensing)

Ordering Information

AT-TQ2400-xx**

Where xx = 10 for NA (next release)
30 for UK (next release)
40 for Australian (next release)
50 for European

* Product availabilities are subject to local type approval regulation

** Check with your local Allied Telesis representative for availability

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