

SignalTEK QT Series

Complete Network
Visibility

Datasheet



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Product Definition

107 x 218 x 50mm, 4.2 x 8.6 x 2.0 inches.

Handset Weight (including battery)

772g, 27.2oz.

Battery

Lithium polymer ternary, 7.4VDC, 7250mAh (53.28 Wh typical).

Lithium mass: 35.5g.

2-cell, series configuration.

Dimensions: 122 x 62 x 15mm.

Net Weight: 230g.

Typical operation time: 10 hours.

Charge time: up to 8 hours with tester powered off.

Input Power

5V/3A DC (USB-C).

Line/mains power adapters

Input: AC 110-240V, 50/60Hz.

Output: 5VDC, 3A, USB-C connector.

Display

IPS 5.0 inch (diagonal) capacitive touch screen, 480x854 resolution with white LED backlight. User adjustable brightness.

Input Methods

Capacitive touchscreen, USB keyboard, USB mouse.

CPU Module

RaspberryPi CM4, ARM Cortex A72, 4 core, 1.5GHz/core.

System memory: 2GB RAM.

Storage: 32GB microSD.

Connectivity (all models)

1 x USB-C (USB 2.0), 2 x USB A (USB 2.0), 1Gb/s Ethernet, integrated Wi-Fi (2.4/5 GHz bands).

Test Ports

SignalTEK QT: 1 x RJ-45.

SignalTEK QT Pro: 1 x RJ-45, 1 x QSFP+, 1 x Visual Fault Locator (FC connector), 1 x RP-SMA Wi-Fi connector.

Data Transfer

Network transfer to cloud via Wi-Fi or wired Ethernet.

Export to USB flash drive. Supports drives up to 256 GB (FAT32 format required).

Copper measurements

Twisted pair copper Cabling: RF sweep to 400MHz measuring near-end crosstalk, return loss, insertion loss delay/length, wire map with pass fail threshold at different cable speed limit.

Fiber optic cabling*

Insertion loss, delay and length. Insertion loss wavelength depends on installed SFP/SFP+ module.

Fiber optic Rx power meter *

Measurement range: +0.5 to -24.0 dBm (widest)

Accuracy: ± 1.5 dB (worst), ± 1.0 dB (typical)

Fiber optical Tx light source *

Output power: +4.0 to -7.1 dBm (widest)

Stability: ± 0.1 dB (worst), ± 0.05 dB (typical) over 15 minutes

Fiber optical Insertion loss accuracy *

Insertion loss: ± 0.2 dB (widest), ± 0.1 dB (typical)

Subject to SFP/SFP+ module used and test conditions.

Supported SFP/SFP+ modules

MSA compliance of 1G SFP and 10G SFP+ modules,

SFP+ * †: 10GBASE-SR, 10GBASE-LR, 10GBASE-ER,

SFP * †: 1000BASE-SX, 1000BASE-LX, 1000BASE-ZX

Wi-Fi diagnostics*

Channel scan with number of access points, channel utilization, number of stations per channel.

Qualification Speeds/Test Limits

Copper Ethernet: 10 Mb/s, 100 Mb/s, 1 Gb/s, 2.5 Gb/s, 5 Gb/s, 10 Gb/s
Fiber optic Ethernet*: 100 Mb/s, 1 Gb/s, 10 Gb/s, 40 Gb/s, 100 Gb/s

Fiber optic manual limit mode*

Insertion loss: 0.0-18.0 dB
Length: 0-40 km / 0-131,233 ft
Fiber optic refractive index range*: 1.30-1.55

Supported Cable Types

2-pair or 4-pair unshielded/shielded twisted pair cabling, 100-ohm nominal impedance. OM1-OM5 multimode and OS1-OS2 single-mode fiber optic cable*.

Supported Connectors

Copper cabling: UTP/STP RJ-45, 8P8C
Fiber cabling*: LC duplex, multimode/single-mode, UPC end-face

Test Times

Copper: <10 seconds
Fiber*: <10 seconds

Wiremap Test Specifications

Length measurement: 0.3m-450m, 1ft-1476ft
Display resolution: 0.5m/1.0ft
NVP range: 59-89%

Wiremap distance to fault display resolution

10cm/3.9in

Length Measurement

Copper: Measurement range: 0-450m/0-1476ft, display resolution 0.5m/1ft.
Fiber*: Measurement range 0-10km/0-32,808ft, display resolution: 0.5m/1ft.
Accuracy: +/-5%, +0.5m.



Operating Temperature

0°C to 45°C, non-condensing.

Storage Temperature

-20°C to 70°C, non-condensing.

Vibration/Shock

MIL-PRF-28800 F, Class 3 (met by design).

Conformance

IEC 62368-1:2023: Audio/video, information and communication technology equipment - Part 1: Safety requirements

EN61326-1:2020 – Electrical equipment for measurement, control and laboratory use. EMC requirements.

- EN55011:2016 + A11:2020 – Industrial, scientific and medical equipment. Radio frequency disturbance characteristics
- EN61000-4-2 - Electrostatic Discharge Immunity Test
- EN61000-4-3 - Radiated, radio-frequency, electromagnetic field immunity test
- EN61000-4-4 - Electrical Fast Transient / Burst Immunity Test EN61000-4-5:2006 - Surge Immunity Test
- EN61000-4-6 - Immunity to conducted disturbances, induced by radio- frequency fields
- EN61000-4-11 - Voltage dips, short interruptions and voltage variations immunity tests

Instrument: CE, FCC Part 15, Class A.

Battery: DOT 49 CFR 173.185, UN Part IV – section 38.3.



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