





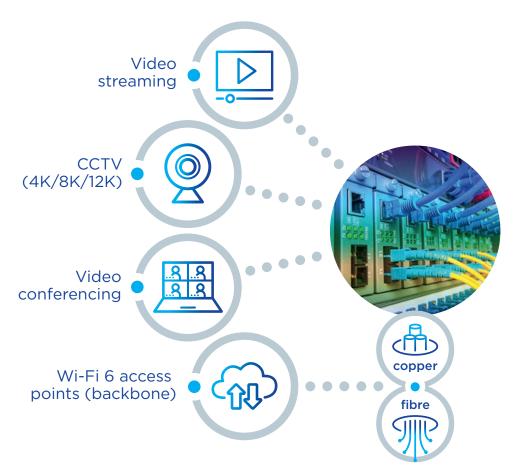


## SignalTEK 10G

10G Ethernet Troubleshooter and Bandwidth Tester

The new SignalTEK 10G measures the maximum bandwidth of the network cabling up to 10 Gigabits per second. By simulating actual network traffic users can test, troubleshoot and document network and data cable performance up to 10 Gigabit Ethernet standards.

SignalTEK 10G has built-in Wi-Fi connectivity to connect seamlessly to the free AnyWARE Cloud test management system. AnyWARE Cloud offers pre-configuration to eliminate errors on-site, label printer connectivity to save time and "proof of performance" PDF reports for the clients.



#### **Avoid network downtime**

Troubleshoot Ethernet connectivity issues faster using diagnostic tools.

#### **Pinpoint bottlenecks faster**

Discover which part of your network is causing the bottleneck.

#### Validate network upgrades

Verify Multi-Gigabit switch upgrades to 1/2.5/5 and 10Gb/s speeds.

## Prove the maximum bandwidth

Provide "proof of performance" PDF reports to the client.



# Increase your network speed from 1Gb/s to 10Gb/s

## **Problem**

There are 111 billion metres of Cat5e/Cat6 cabling installed globally that is limited to 1Gb/s bandwidth speeds due to the current switches deployed. Upgrading to Multi-Gigabit switches could increase speed but it is unclear what bandwidth the existing cabling will support.

## Solution

Use SignalTEK 10G to verify what the data cabling will support (up to 10Gb/s) before spending money on new Multi-Gigabit switches delivering 2.5/5/10Gb/s speeds. Use the SignalTEK 10G again following the upgrade to prove performance to the client with the "proof of performance" PDF reports.

## What is the maximum error-free bandwidth the cabling / infrastructure can support?

The max throughput test takes the guesswork out of existing cabling infrastructure. With one test you can easily see what hardware or applications would work on an existing link saving time and reducing the cost of replacing expensive data cabling.

#### As simple as 1-2-3







#### **Fibre Testing**

Verify fibre link speed to 1G or 10G, measure optical power and data throughput.

**Validate Fibre Link Speed** - The fibre link speed test confirms the connection is 1G or 10G which can be affected by cable length or signal loss.

**Troubleshoot Fibre Cable Issues** – The Tx & Rx optical power measurement is compared to the expected power level to determine attenuation in a fibre link. This indicates if the connector is dirty or damaged which is the number one cause of failure.

**Easy to understand traffic light status** - The simple traffic light indicator displays Good, Marginal or Poor power level based on IEEE 802.3 IG/10G limits.

**Max throughput test** - The SignalTEK 10G will prove the maximum available bandwidth over the fibre link up to 10Gb/s.

**Discover a faulty SFP** - The SFP temperature is measured to help understand if it has become faulty.

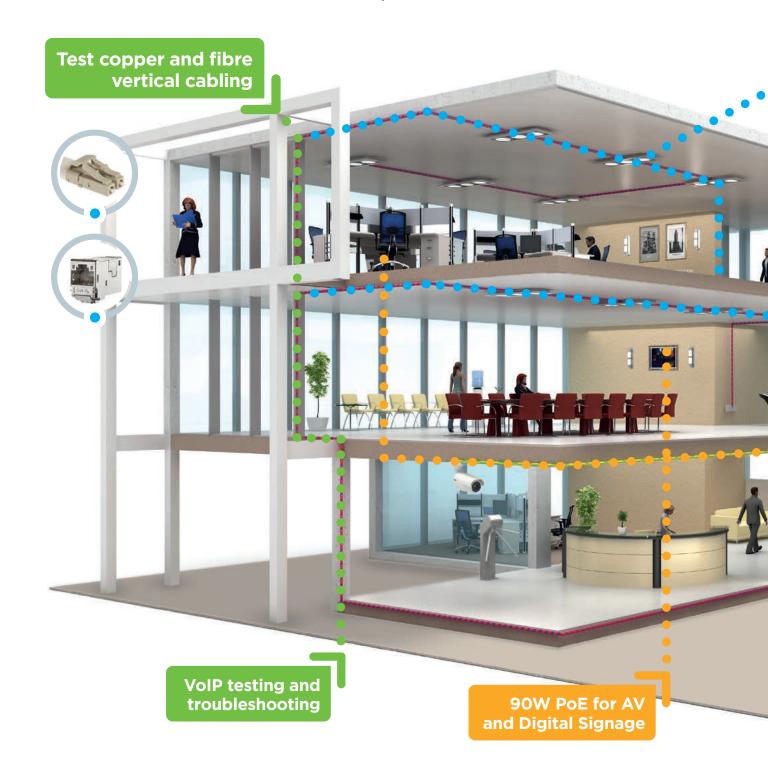


Will my existing cabling infrastructure support Multi-Gigabit technology?

## 10G/Multi-Gigabit Performance

Meets your network needs today and tomorrow.

The **SignalTEK 10G** will help to increase network bandwidth without replacing expensive cable infrastructure, troubleshoot PoE and Ethernet issues and prove the maximum bandwidth up to 10 Gigabits per second.











**Verify Multi-Gigabit Performance before** deployment

> **Testing through** switches

> > **Prove performance** of new cable installations up to 10G

**Network testing and** troubleshooting including 72 hour event log

**Conduct preventative maintenance** testing, audit network capabilities and simulate additional network demand

## **Network Testing**

The SignalTEK 10G is also a network tester for troubleshooting and maintenance of active and passive copper and fibre networks.



#### Port & network summary info

Press the Autotest button to display summary information and allow for detailed inspection of network parameters.



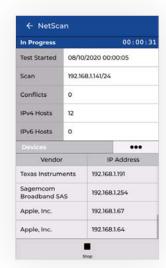
#### CDP/LLDP/EDP port information

Show port information using Cisco
Discovery Protocol (CPD). Link Layer
Discovery Protocol (LLDP) and Extreme
Discovery Protocol (EDP).



#### **VLAN detection & operation**

Automatic detection of VLAN IDs allows the user to configure SignalTEK 10G for operation on a VLAN.



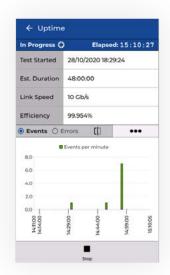
#### Netscan

Display list of IP and MAC addresses of every device connected to the network.



#### **Custom Wiremap**

Use a list of wiremap templates for common Ethernet cable types as well as non-Ethernet cables, such as Profinet and ISDN.



#### 72-hour event log

Find rogue devices and intermittent issues using the 72-hour event log.

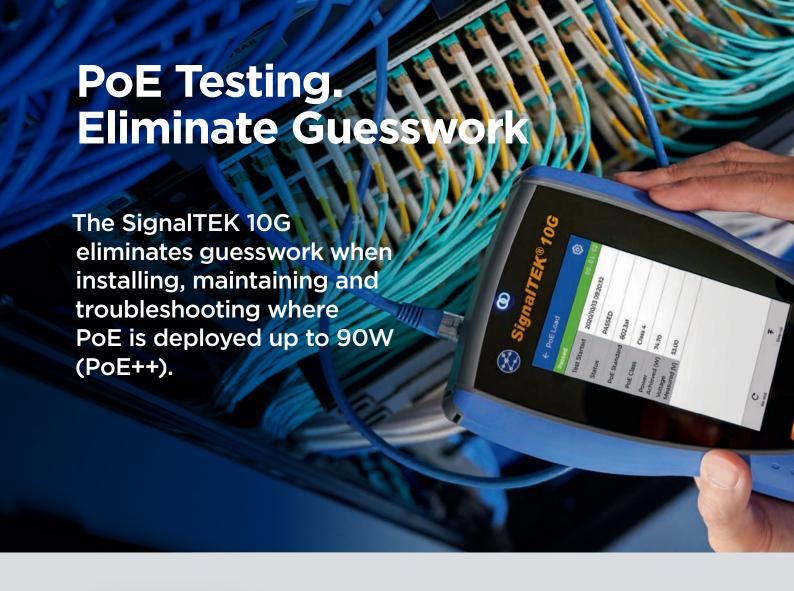


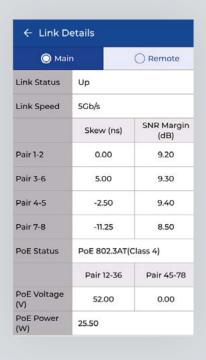
# 72-hour event log captures network events down to the second eliminating guesswork

SignalTEK 10G logs all network events over a 72-hour period to help diagnose connectivity issues faster, reducing hours onsite and reducing trips to the site. Leave the tester onsite, connect remotely to monitor network activity, view the event log and control all functions of the tester from the office.



The SignalTEK 10G will log all network events over a 72-hour period to help diagnose connectivity issues faster, reducing hours onsite and reducing trips to site.





#### No more trial and error

Accurately measure the maximum power available

#### Supports PoE up to 90W (PoE++)

Test all PoE Classes (0-8) and Types (af/at/bt)

#### **Identifies the powered pairs**

Determine whether power is from a switch or midspan injector

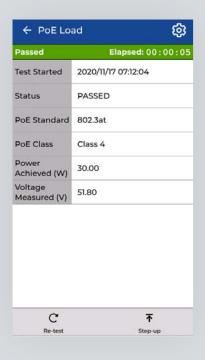
#### **Verify the PoE installation**

Pass / Fail indication to IEEE standards

#### **Extended power test**

Some switches may provide power exceeding their IEEE Class rating. Measure the maximum available power up to 90 watts.





#### Adoption of Power over Ethernet (PoE)

In just a few short years we have seen many different applications increasing adopt PoE, such as monitors, digital signage, phones, security cameras, lighting and access control.

Previously technicians had to understand all the various standards, device power outputs and cable lengths to be sure a device will operate successfully.

The SignalTEK 10G identifies the Class of the PoE source and power available up to 90W to a PoE device regardless of cable length, cable quality or other factors. A clear pass/fail is provided to IEEE 802.3af/at/bt standards.

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## **Test Management** Software



The **AnyWARE Cloud** management system allows real time collaboration between Project Managers and Field Technicians. There is no need for Field Technicians to setup the SignalTEK 10G, Project Managers pre-configure the jobs and tests in the AnyWARE Cloud, eliminating potential mistakes and compressing the time taken to prepare reports for customers.



#### **Cloud software**

- Operates anywhere with a web browser AnyWARE
   Cloud operates on a PC, Mac and tablet devices (Android and iOS)
- **Free storage** No need for separate servers or backup systems.
- Easy to find project files Attach all project files including cable layout drawings, videos, and photos into the AnyWARE Cloud. Everything you need in one place.
- Share reports easier Use AnyWARE Cloud to share links to the test reports eliminating the need to manually email large attachments.
- Reduce training time with WalkMe AnyWARE Cloud is embedded with the WalkMe digital adoption platform providing proactive, step-by-step guidance on all key tasks.

#### Fleet management

 Easily manage the certifier fleet – Fleet manager allows you to see who has the SignalTEK 10G when the software was last updated and when the results were last synced. Allowing you to manage tester downtime and ensuring results are transferred back to the office and not lost or deleted.

#### **Professional PDF reporting**

• Customer profiles - Create a profile for each of the customers with their company logo, address and contact details. This information is automatically pulled through to the reports, saving time.

#### **Report formats**

- **Summary report** This is a report showing multiple tests per page.
- **Detailed report** This is a comprehensive report with all the measurement results with one page per test.

Reports can be generated on the SignalTEK 10G or on the free TREND AnyWARE Cloud.



TREND AnyWARE Cloud Jobs screen

TREND NETWORKS

SignalTEX LOG Test Report.

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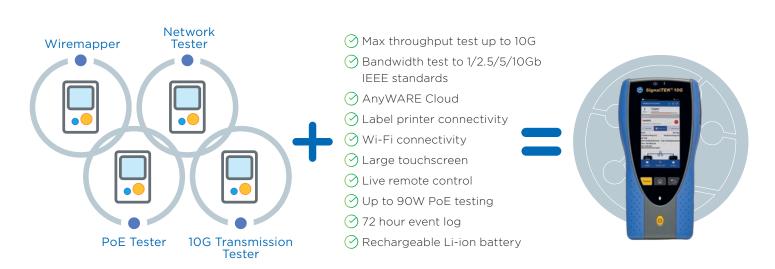
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TREND AnyWARE Cloud Test Result report

## **TeamViewer** Live Support



## SignalTEK 10G Feature-rich



## **SignalTEK 10G**



## Future-proof the investment

**SignalTEK 10G** is a future-proof investment as additional features can be unlocked with a simple license key when required. There are two upgrade options to choose from: fibre testing and advanced network testing.

Part No	Description
UPGRADE10GFIB	UPGRADE SignalTEK 10G - Fibre testing option
UPGRADE10GNET	UPGRADE SignalTEK 10G - Network testing option

# Who is **SignalTEK 10G** designed for?

Category	Solution	SignalTEK 10G CT R157000	SignalTEK 10G FT R157001	SignalTEK 10G NT R157002	SignalTEK 10G PRO R157003
Copper	Max bandwidth test up to 10Gb/s	$\odot$	$\odot$	$\odot$	$\odot$
	Data transmission test 1/2.5/5/10Gb	$\odot$	$\odot$	$\odot$	$\odot$
	NbaseT/Multi-Gigabit test 1/2.5/5/10Gb	$\odot$	$\Theta$	$\odot$	$\bigcirc$
	Wiremap, distance to fault, length	$\odot$	$\odot$	$\odot$	$\Theta$
	Cable tracing (with compatible probe)	$\odot$	$\odot$	$\odot$	$\odot$
	Pass / Fail to copper IEEE standards	$\odot$	$\odot$	$\odot$	$\Theta$
Bog.	Pass / Fail to PoE IEEE standards	$\odot$	$\Theta$	$\odot$	$\Theta$
	Max power available (up to 90 watts)	$\odot$	$\odot$	$\odot$	$\Theta$
	Type (af/at/bt) and Class (1 to 8)	$\odot$	$\Theta$	$\odot$	$\Theta$
	Displays voltage and which pairs have PoE	$\odot$	$\odot$	$\odot$	$\Theta$
Fibre	Optical Tx/Rx power indication		$\odot$		$\Theta$
	Max bandwidth test up to 10Gb/s		$\Theta$		$\Theta$
	Data transmission test 1/10Gb		$\Theta$		$\Theta$
	Pass / Fail to fibre IEEE standards		$\odot$		$\Theta$
	SFP temperature, vendor and model		$\odot$		$\odot$
	Supports SFP/SFP+ (MM&SM)		$\odot$		$\odot$
Network optional	Switch Speed - 100M, 1G, 2.5G, 5G, 10G			$\odot$	$\Theta$
	VLAN, PING, TraceRoute, Hub blink, NetScan	ı		$\odot$	$\odot$
	CDP/LLDP/EDP port information			$\odot$	$\Theta$
	Uptime efficiency and 72 hour event log			$\Theta$	$\Theta$
_	Testing with packet loss, jitter and delay			$\odot$	$\Theta$
	Prove network performance up to 10G			$\odot$	$\Theta$

Depend On Us 0 15 0

## **SignalTEK 10G**

#### **10G Ethernet Troubleshooter** and Bandwidth Tester

#### Ordering information

Part No	Kit Contents		
R157000	SignalTEK 10G CT - (excl. fibre and network testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
R157001	SignalTEK 10G FT - (with fibre testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
R157002	SignalTEK 10G NT - (with network testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
R157003	SignalTEK 10G Pro - (with fibre and network testing) SignalTEK 10G Display/Remote handsets, Li-ion Batter; (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
TRADE157000	SignalTEK 10G CT - TRADE-IN (excl. fibre and network testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
TRADE157001	SignalTEK 10G FT - TRADE-IN (with fibre testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
TRADE157002	SignalTEK 10G NT - TRADE-IN (with network testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
TRADE157003	SignalTEK 10G Pro - TRADE-IN (with fibre and network testing) SignalTEK 10G Display/Remote handsets, Li-ion Battery (2), Hanging Strap (2), Quick Ref. Guide, Carry Case, Power Supply (2), 2m Cat 6A shielded patch cables (2).		
UPGRADE10GFIB	UPGRADE SignalTEK 10G - Fibre testing option Unlock the fibre testing option using a simple license key		
UPGRADE10GNET	UPGRADE SignalTEK 10G - Network testing option Unlock the advanced network testing option using a		



#### Optional Accessories

Part No.	Description
MGKSX1	1 x 1000BASE-SX Fibre kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/ LC and LC/SC duplex multimode cables and SC/SC duplex adapter
MGKLX2	1 x 1000BASE-LX Fibre kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/ LC and LC/SC duplex singlemode cables and SC/SC duplex adapter
MGKZX3	1x 1000BASE-ZX Fibre kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/ LC and LC/SC duplex singlemode cables and SC/SC duplex adapter
R180001	1 x Cable tracing amplifier probe
R157000W2	1 x 10GbE MM Fibre Kit 850nm SR
R157001W2	1 x 10GbE SM Fibre Kit 1550nm ER
R157002W2	1 x 1GbE SM Fibre Kit 1310/1550nm
R157003W2	1 x 10GbE SM Fibre Kit 1270/1330nm
R157050	1 x 10GbE SM Fibre Kit 1310nm LR
R157051	10GbE SM Fibre Kit 1550nm ER **
R157052	1GbE SM Fibre Kit 1310/1550nm **
R157053	10GbE SM Fibre Kit 1270/1330nm **
R157054	10GbE SM Fibre Kit 1310nm LR **

<sup>\*2</sup> year warranty will include free repairs or exchanges if the product does not function as originally intended. 2 year warranty begins from the date of dispatch. Terms and Conditions apply. Warranty does not include accessories.
\*\*See website for full details www.trend-networks.com



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simple license key

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