

# Tri-Porter™

## Premises Wiring Tester



### Key Features

- Detects and reports speed and capabilities for active Ethernet and other devices up to 1 Gb/s
- Verifies connectivity to active network devices with pinging function
- Blinks link indicator LED to verify cable termination on active ports
- Measures basic RF signal level
- Tests cabling configuration and verifies connectivity
- Identifies location for up to 20 coax, RJ45, RJ11, or unterminated cables at a time
- Measures cable length
- Tones and traces cable through coax splitters
- Includes integrated, DSL-safe, advanced-function telephone test set



### Applications

- Test and verify drops supporting voice services
- Ensure connectivity to Internet without using a PC
- Check availability of signal from cable service provider
- Configure and test network cable for Ethernet services
- Check capabilities of active network equipment
- Verify wiring condition and connected cable length
- Tone and trace cables for identification and troubleshooting
- Identify cable termination location at drops and active equipment

The Tri-Porter™ Premises Wiring Tester enables a full range of premises cabling tests with a single tool. It provides full diagnostic capability for network, telephone, and video systems with wiring qualification and fault diagnosis, cable tracing, location identification, and presence of service detection. Tri-Porter consists of a main unit and cable test remote/probe that enables technicians to test, troubleshoot, and qualify telco, network, and coax cable systems. This all-in-one package performs the work of six traditional testing tools: a DSL-safe telephone test set, active network tester, tone generator, probe, cable tester/verifier, and coax mapper. It also measures basic RF signal level for detection of signal from the cable service provider.

Technicians conduct multiple tests with Tri-Porter, including the following: single-ended continuity test; complete continuity test with cable test remotes; cable trace and location; trace coax cable to device or through splitter; measure cable length; map cable locations; ID unknown jacks or plugs; identify cable termination at active Ethernet ports; ping to verify connectivity to network devices; power premise telephone wiring with dial-tone simulation; provide talk battery; measure basic RF signal level; test telephone circuits for caller ID and other features; and other valuable tests for installation and maintenance of premises networks, regardless of service type.

The easy-to-use Tri-Porter reduces the tool set requirements for technicians with complete functionality for premises cable test and verification. As a result, technicians always have the right tool on hand for the job. In addition, the multi-function tool decreases training requirements and enables technicians to work quickly with one, familiar testing interface.



## Tri-Porter replaces up to six traditional testing tools.

Testing and verifying voice, video, and IP-based services on the premises takes less time and is more convenient and economical with this all-in-one tool.



## The Six-in-One Premises Wiring Tester

## Tri-Porter: A Fully-Featured Premises Wiring Tester



Test and qualify premises cabling for voice, data, and video.

<p>Telco Map Test SEL to execute</p>	<p>SETUP 255.255.255.000 DHCP Netmask</p>	<p>RF Energy SEL to execute</p>
<p><b>VOICE</b> <b>Telephony Testing</b></p> <ul style="list-style-type: none"> <li>• Identify dial tone without disrupting data (DSL-safe)</li> <li>• DTMF digit capture to watch dialed call numbers for accuracy</li> <li>• Verify caller-ID and call waiting caller-ID services</li> <li>• Dial tone generation to test lines without outside provider service</li> <li>• Speakerphone for hands-free use</li> <li>• Probe/wand is also a listen-only telephone test set</li> <li>• Identify up to 20 RJ11 jack locations at a time</li> </ul>	<p><b>DATA</b> <b>Ethernet Network Testing</b></p> <ul style="list-style-type: none"> <li>• Wiremap and verify cabling continuity</li> <li>• Measure cable length</li> <li>• Tone and trace for troubleshooting</li> <li>• Perform network configuration with DHCP or manual addressing (without a PC) at 100M</li> <li>• Discover advertised capability and speed of devices up to 1 Gb/s</li> <li>• Ping IP addresses to verify connectivity to local and Internet devices</li> <li>• Blink the hub to find cable connection without disconnecting cable at active port</li> <li>• Identify up to 20 RJ45 jack locations at a time</li> </ul>	<p><b>VIDEO</b> <b>Coax Testing</b></p> <ul style="list-style-type: none"> <li>• Measure basic RF service level to identify service presence</li> <li>• Tone and trace cables through splitters or to active equipment</li> <li>• Test for opens and shorts</li> <li>• Measure length</li> <li>• Identify up to 20 coax locations at a time</li> </ul>

**Specifications**
**Physical**
**Main Unit**

Dimensions	20 x 8.9 x 5.6 cm (8.0 x 3.5 x 2.2 in)
Weight with battery	740 grams (26 oz)

**Tracer/Remote**

Dimensions	15 x 5.8 x 4.3 cm (9.3 x 2.3 x 1.7 in)
Weight with battery	285 grams (10 oz)

**Environmental**

Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-30 to 80°C (-20 to 176°F)
Humidity	10 to 90%, non-condensing

**Electrical**
**Battery Life**

Times are for the full capacity of the battery used continuously in one of the following modes (batteries not included):

**Main Unit – Six AA Alkaline**

Standby	2.5 yrs
Cable Testing	50 hrs—no backlight; 27 hrs—50% backlight
Network Testing	13 hrs—no backlight; 12 hrs—50% backlight
Phone	27 hrs—no backlight; 22 hrs—50% backlight

**Tracer/Remote – One 9-volt Alkaline**

Standby	2.5 yrs
Tracing	13.5 hrs
Phone	18 hrs
Network testing	10 Mb or 100 Mb Ethernet

**General**

Cable Types	Shielded or unshielded twisted pair and Coax
Min cable length for testing for split pairs	1 m (3 ft)
Min cable length for single-ended cable test	1.25 m (4 ft)
Length measurement range twisted pair	0 to 457 m (0 to 1,500 ft)

**Telephone Test Set Specifications**
**Interfaces**

Telephone system	Modular telco
Headset	2.5 mm cell-phone type

**Ringer Equivalence**

In BELL mode	0.0 (no ringer load)
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**Tone Dialing — DTMF output (into 600 Ohms):**

Tone-frequency error	±1.5%;
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**Tone level**

– High group	-6 ± 2 dBm;
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– Low group	-8 ± 2 dBm;
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– High vs low difference	2 ± 1 dBm
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<b>Flash Duration</b>	600 ± 50 ms
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<b>Pause Duration</b>	Tone: 3 s; Pulse: 3.4 s
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<b>Return Loss</b>	14 dB at 600 Ohms
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<b>Line-Current Range</b>	15 to 120 mA
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<b>Apparent Line Resistance</b>	275 Ω at 20 mA
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<b>Monitor Mode Impedance</b>	>230K Ω
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**Measurement**

Voltage	0 to 128 V DC ± 5%;
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Current	10 to 140 mA ± 5%;
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**Ordering Information**
**Tri-Porter Premises Wiring Tester**
**IVT600**
**Tri-Porter Premises Wiring Tester – Australia settings**
**IVT600AUS**
**Tri-Porter Premises Wiring Tester – United Kingdom settings**
**IVT600UK**

– Tri-Porter includes main unit, remote tester/tracer, mini headset, two 19 cm (7.5 in) RJ12 to RJ12 cables for no-fault connection to RJ11 or RJ45 jacks (TP20), two sacrificial cables for RJ45 mod plug (TP74), 1.22 m (4 ft) RJ11 to angled bed-of-nails cord set (LB35), two 30.48 cm (1 ft) patch cables with RJ45 connectors (TP55), 30.48 cm (1 ft) coax cable (TG30), shielded F-connector adapter (TG31), 3.05 m (10 ft) safety ground cable (TG32), coupler F-jack to F-jack, set of 20 (1–20) coax ID-only remotes (TP311), set of 20 (1–20) RJ45 ID-only remotes (TP312), set of 20 (1–20) RJ11 ID-only remotes (TP314), set of 20 (1–20) two-lead ID-only remotes (TP315), and zippered pouch. Requires one 9-volt and six AA batteries (not included).

**Accessories**

19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks	TP20
Sacrificial cable for RJ45 mod plug	TP74
1.22 m (4 ft) RJ11 to angled bed-of-nails cord set	LB35
30.48 cm (1 ft) patch cable with RJ45 connectors	TP55
30.48 cm (1 ft) coax cable	TG30
Shielded F-connector adapter	TG31
3.05 m (10 ft) safety ground cable	TG32
Set of 20 (1–20) coax ID-only remotes	TP311
Set of 20 (1–20) RJ45 ID-only remotes	TP312
Set of 20 (1–20) RJ11 ID-only remotes	TP314
Set of 20 (1–20) two-lead ID-only remotes	TP315

**Warranty**

JDSU guarantees that its products will be free of all defects in material and workmanship. This warranty extends for the period of 12 months for test instruments and 3 months for cables from date of manufacture or purchase (proof of purchase required).

All products deemed defective under this warranty will be repaired or replaced at the discretion of JDSU. No further warranties, either implied or expressed, will apply, nor will JDSU assume responsibility for operation of this device.


**Test & Measurement Regional Sales**

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