

IVR-6126

Handheld Gigabit Ethernet TestSet



IVR-6126 handheld gigabit Ethernet test set is one of interVRE's handheld test products. It is designed for Ethernet network deployment and comprehensive test. IVR-6126 fully meets Ethernet standard, offering complete ethernet test functionalities with lightweighted, flexible and rugged qualities. It can be applied to indoor laboratory or outdoor field environment and provide carrier-class. Ethernet test solution for network expert.

- Lightweighted, compact, rugged, flexibly used in outdoor field environment
- Quick power on, high-resolution color touch screen
- Friendly key design for flexible scrolling and selecting
- More comprehensive test function, higher cost-effective
- Offer complete gigabit Ethernet solution from installation and commissioning to operation and maintenance

Lightweight structure design, comprehensive test functionalities



FEATURES

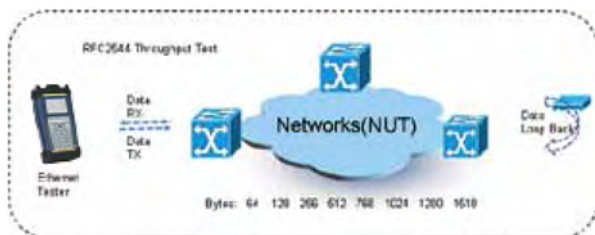
- Generate full-duplex 10/100/1000 Mbps Ethernet line speed stream
- Throughput, frame loss, atency, back-to-back measurements as per RFC2544
- Support optional tests as per Y.1564, providing comprehensive field tests for mobile backhaul and business services
- Support RFC3393 jitter test
- L1/L2/L3/L4 BERT test
- Maximum generate 8 streams, the parameter of streams can be configured:
 - MAC address, VLAN label, MPLS, IPV4/ IPV6 address, payload and bandwidth
- Filtration and package capture on line
- Flow priority can be set according to CoS and ToS/DSCP
- Test curve used for understanding network condition quickly and accurately
- Allowing automatic SLA verification through RFC2544 and Y.1564, it is an efficient test tool for verifying SLA
- Installation, operation, maintenance and troubleshooting of gigabit Ethernet and IP service
- 3 layer CoS setting for verifying metro Ethernet service
- Support dual-port through function
- Service disruption time test (SDT)

IVR-6126 offer quick and efficient Ethernet test

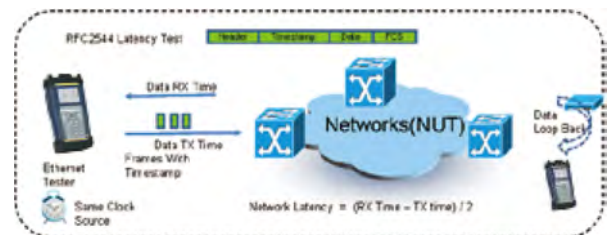
RFC2544 Test

IVR-6126 handheld gigabit Ethernet test set fully support RFC2544 standard, offer throughput, latency, frame loss and back-to-back test in metro network and generate complete test report.

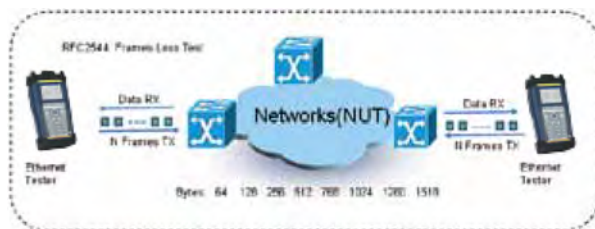
Throughput Test



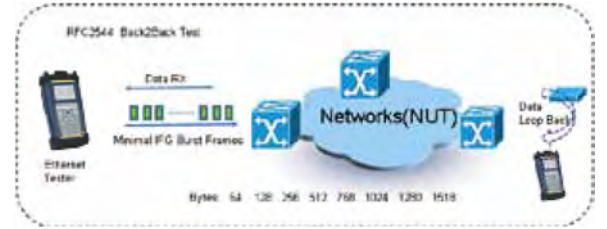
Latency Test



Frame Loss Test



Back-to-Back Test

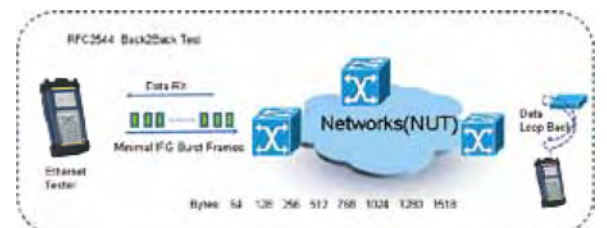


BERT Test

Ethernet BERT test adopts the principle similar with BERT in SDH transmission network. BERT test could transfer the Ethernet frames with special test code in test network, and analyze these frames at the receiver to validate the test network.

Multi-stream Analysis and Test

It is necessary to simulate various different services in Ethernet test. This test could generate multi-stream and test the forward ability of these services in Ethernet network. In this test, it also could set and generate multi-stream with different priority.



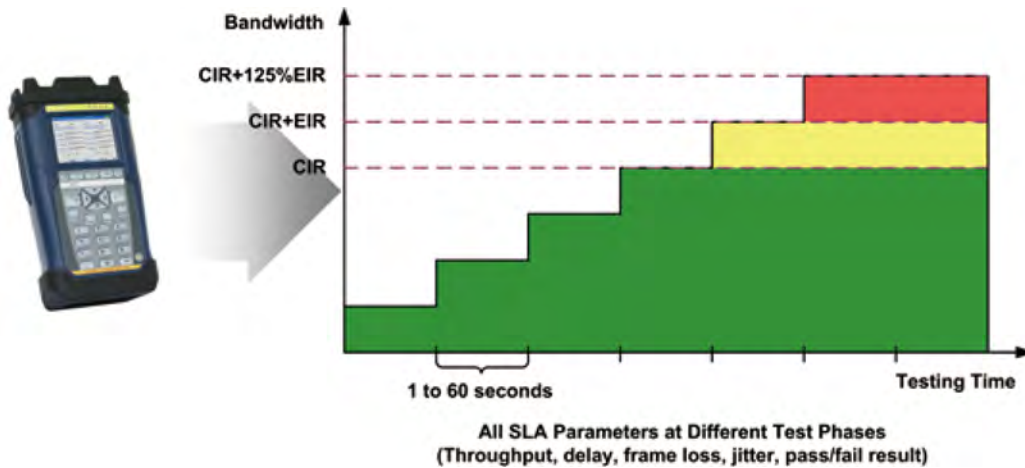
IVR-6126 offer quick and efficient Ethernet test

EtherSAM (Y.1564) New Standard for Ethernet Test

So far, RFC2544 has been the most widely-used standard for Ethernet test. However, it is designed for indoor network facilities test rather than service field test. ITU-T Y.1564sam is draft standard recently introduced for Carrier Ethernet service launch and fault diagnosis. Comparing to RFC2544, it has advantages including critical SLA standards such as identifying packet jitter and QoS measurements. It also greatly accelerate testing process which saves time, resources and optimize QoS.

Network Configuration Test

Network configuration test includes tests for each service, verifying if service configuration is correct and all specific KPI or SLA parameters are fulfilled.



Performance Test

After verifying configuration of each service, the tester will verify quality of all services simultaneously.



RFC3393 Jitter Test

Based on the RFC3393 principle, the tester can provide packet jitter measurement to identify PTN network transmission sensitive delay information flow ability.

IVR-6126 Series Specifications

SPECIFICATIONS					
Optical interface		1000Base-SX	1000Base-LX	1000Base-ZX	
	Wavelength (nm)		850	1310	1550
	Tx level (dBm)		- 9 to - 3	- 9.5- to 3	0 to +5
	Rx level sensitivity (dBm)		- 20	- 22	- 22
	Maximum reach		550m	10 km	40 km
	Transmission bit rate (Gbit/s)		1.25	1.25	1.25
	Reception bit rate (Gbit/s)		1.25	1.25	1.25
	Tx operational wavelength range (nm)		830 to 860	1270 to 1360	1540 to 1570
	Measurement accuracy	Frequency (ppm)	<0.1	<0.1	<0.1
		Optical power (dB)	<0.5	<0.5	<0.5
Transceiver type		SFP	SFP	SFP	
Electrical interface	Duplex mode : full/half duplex		Compliance : 10/100/1000 BASE-T		
	Connector : RJ-45		Maximum reach : 100m		
Screen	Color touch screen 320x 240 TFT 3.5 inch				
Interface	USB A/B interfaces Ethernet interface				
Storage	128M flash				
Battery	Rechargeable Li-Ion batteries 8 hours of continuous operation as per Bellcore TR-NWT-001138				
Power Source	AC/DC adapter, input: 100-240VAC, 50-60Hz, max current 2A; output: 24VDC, 2A				

PHYSICAL SPECIFICATIONS	
Temperature	Operating: -10°C to 50°C; Storage: -40°C to 70°C
Relative humidity	0% to 95% (non-condensing)
Size (H×W× D)	80 mm x 135 mm x 250 mm
Weight	1.1kg

IVR-6126 Series Specifications

ORDERING INFORMATION		
Products	Model	Description
Standard Configuration		
Main Frame (one of two)	IVR-6126S	Handheld Ethernet tester, one 10/100/1000 Mbps Ethernet electrical interface and one 1000Mbps Ethernet optical interface
	IVR-6126	Handheld Ethernet tester, two 10/100/1000 Mbps Ethernet electrical interfaces and two 1000Mbps Ethernet optical interfaces
Battery	LB03V10S0103	One 1 parallel 3 series Lithium polymer rechargeable battery for IVR-6100, 10.8 V
Power Adapter	SA148A-24V	One 24V AC/DC, power adapter for IVR-6100.
Power Cable	OA1611PWR_2M	One power cable, 2m
Disc	IVR_1808_6126_CD	One IVR-6126 disc
Package	REG6100	One IVR-6100 package
Ethernet Jumper	RE1611UTP53	One Ethernet Category 5 UTP twisted pair, 3m
LC/LC Fiber Jumper	LCLC-0203	One duplex fiber jumper with LC/LC interface, single-mode, 9/125, 3m
Optical Module	RE14023230	One/two 1.25G 1310nm 10Km LC SFP optical modules. (One optical module for IVR-6126S; two optical module for IVR-6126)
Optional Configuration		
Functional Option	IVR-Y1564AGeEth	Gigabit Ethernet Y.1564 EthSAM testing option
	IVR-SsAGeEth	Service scan testing option
	IVR-BIDIRAGeEth	Bidirectional testing option
	IVR-IPv6ATeEth	IPv6 testing option
Accessories	RE14020010	1.25G SFP optical module, 850nm, 550m, SX
	RE14020020	1.25G SFP optical module 1310nm, 10km, LX
	RE14020120	1.25G SFP optical module 1550nm, 40km, ZX

● *InterVRE reserves the right to alter and amend the design, characteristics and specifications without notice or obligation.*

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