



Setting the Standards

## Ethernet Analyzer



### Description

Oxin Ethernet Analyzer, OCT-5000, is a handheld expert instrument for Ethernet deployment, maintenance, and troubleshooting. It supports 1000/100/10 Mbps RJ-45 electrical interface and 1000/100 Mbps SFP optical interface, monitors network operation status through termination mode or pass through mode, and supports comprehensive LAN testing and common network tool.

OCT-5000 is the right product meeting the current testing requirements for Ethernet applications in IP network, transport network and MSTP.

### Features and Benefits

1. Simple and easy operation: high-definition color touch screen and graphical user interface
2. Powerful performance analysis: provide comprehensive network performance evaluation for the deployment and maintenance of networks and services through traffic analysis, BER, ITU-T Y.1564 and RFC2544, IPDV testing
3. Comprehensive LAN testing: deep understanding of network status and timely discover problems in the network through network device scan, problem discovery, health check, terminal emulation
4. Multiple test modes: termination, pass through, loopback, and other modes of measurement
5. Good compatibility: support end-to-end testing with other Ethernet testers from Oxin Group
6. Powerful battery: built-in large capacity Li-ion battery with long operation time
7. Optimized structure design: test interface antidust and anti-shock
8. Advanced cooling system: ensure long and stable operation of the instrument
9. Screen: User-friendly, large LCD touch-screen, graphical user interface (Color 4.3"LCD - 272×480 Pix)

### Applications

- End-to-end testing
- Termination mode
- Pass through mode
- Loopback mode
- Network monitoring

# Ethernet Analyzer Functions

<b>Network Configuration</b>	IP address	static or dynamic from DHCP
	VLAN	layer 2 VLAN nested - C-VLAN S-VLAN (QINQ)
	MPLS	layer 3 MPLS nested (MPLS Label #1 ~ 3)
<b>Network Performance</b>	ITU-T Y.1564 testing	supports service configuration test 8 services at more and performance supports service configuration test
	RFC2544 testing	support throughput latency frame loss rate and back-to-back testing
	Traffic tests	wire-speed traffic generation statistics for received traffic include traffic error IPDV SDT test
	Multi Stream	8 configurable traffic streams
	Loopback	L1-L4 layer
	Cooperation	RFC 2544 and Y.1564 tests
	High Speed Ping	setup PING rate up to 1000M
	Download Speed	high speed multithread FTP, HTTP download test up to 1000M
	Server Performance	test the server's response time of application layer network (DNS / POP3 / SMTP / WEB)
	Network Tools	ping tracert web browser



# Ethernet Analyzer Functions



<b>Network Analysis</b>	PPPoE	PPPoE dial connection ping and traffic test functions
	Netscan	scan and identify network equipment
	SNMP	query information of network equipments exchange board router - basic information query interface statistic service query
	Packet Capture	wire-speed filter and data capture filter decoding
	Problem Probe	report network problems found from starting up or clearing about physical connection traffic application layer and so on
	Device Probe	identifies devices in the network through monitoring all kinds of message sent by network devices
<b>Wire Testing</b>	Cable length	test length of twisted pair 1-100m calibration
	Wire order	test if twisted pair is cross or parallel lines
	Port Blink	identify cable connect to which port of the switch
	Wire Tracer	find cable by tone tracer select wire and frequency
	Port Identify	identify type of wire connecting with port1 - ethernet telephone token-ring equipment with no electricity unconnected
	PoE	test whether network devices supply electricity for terminal devices and whether terminal devices are PoE power receiving equipment tester could transfer electricity from power supply equipment to power receiving equipment show voltage and current

# Ethernet Analyzer Applications

## End-to-end testing

Use two instruments to do traffic performance testing and BER testing. The far-end instrument can automatically do RFE2544 testing with the near-end



## Termination mode

Use the instrument to connect network, cable or equipment and execute connectivity testing, cable testing, terminal emulation, LAN testing



# Ethernet Analyzer Applications

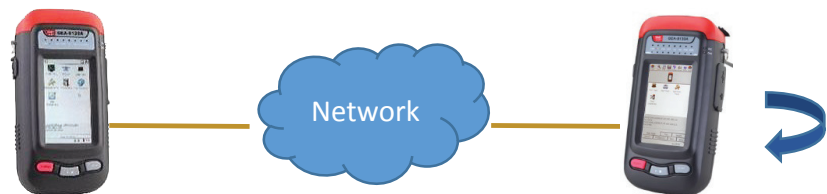
## Pass through mode

Connect the instrument between two networks or between PC and network, two-way count and analyze the network data that passes through the instrument



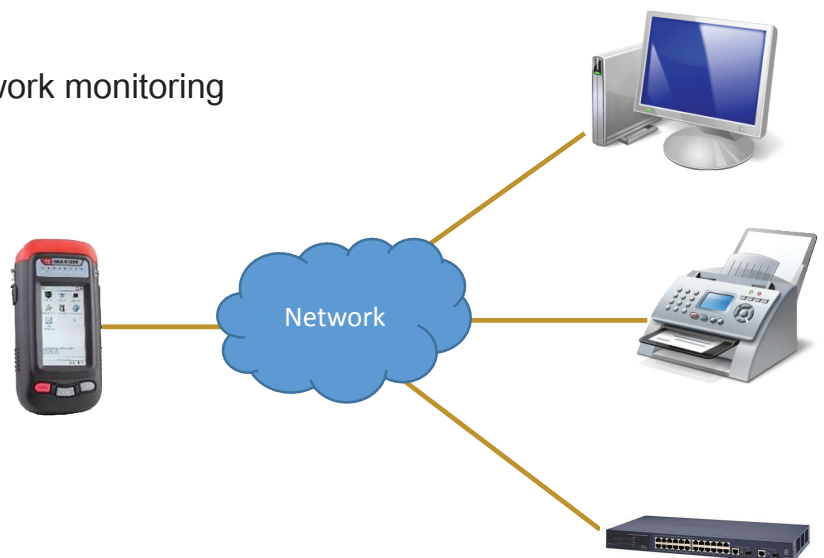
## Loopback mode

The instrument is in the status of data loop back and loops back received data according to data loop back layer



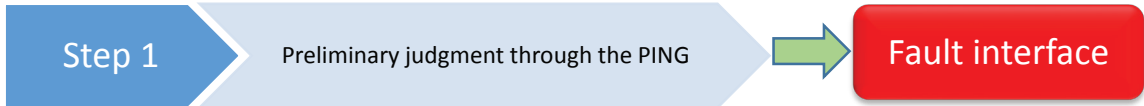
## Network monitoring

Use the instrument to connect to network, analyze received network data and discover automatically potential problems of network and equipment

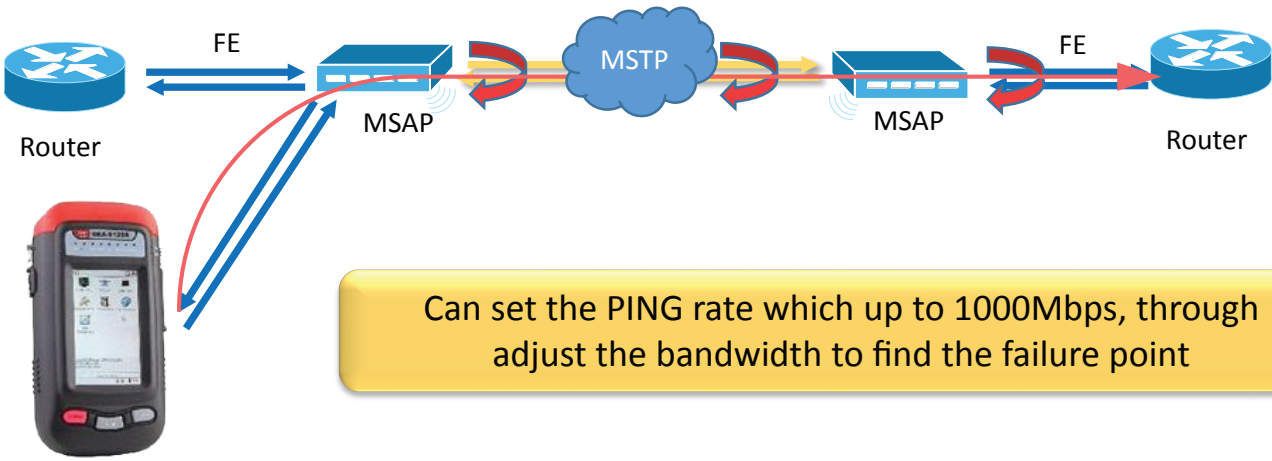
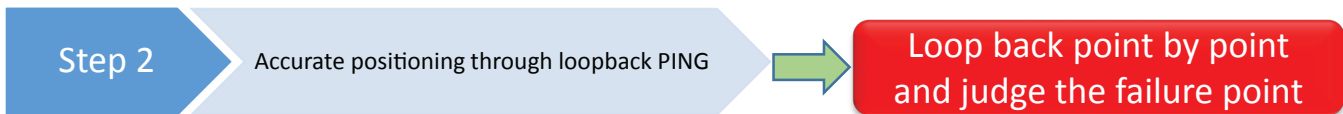


# Ethernet Analyzer Typical Applications

MSTP lined fault point quickly addressed



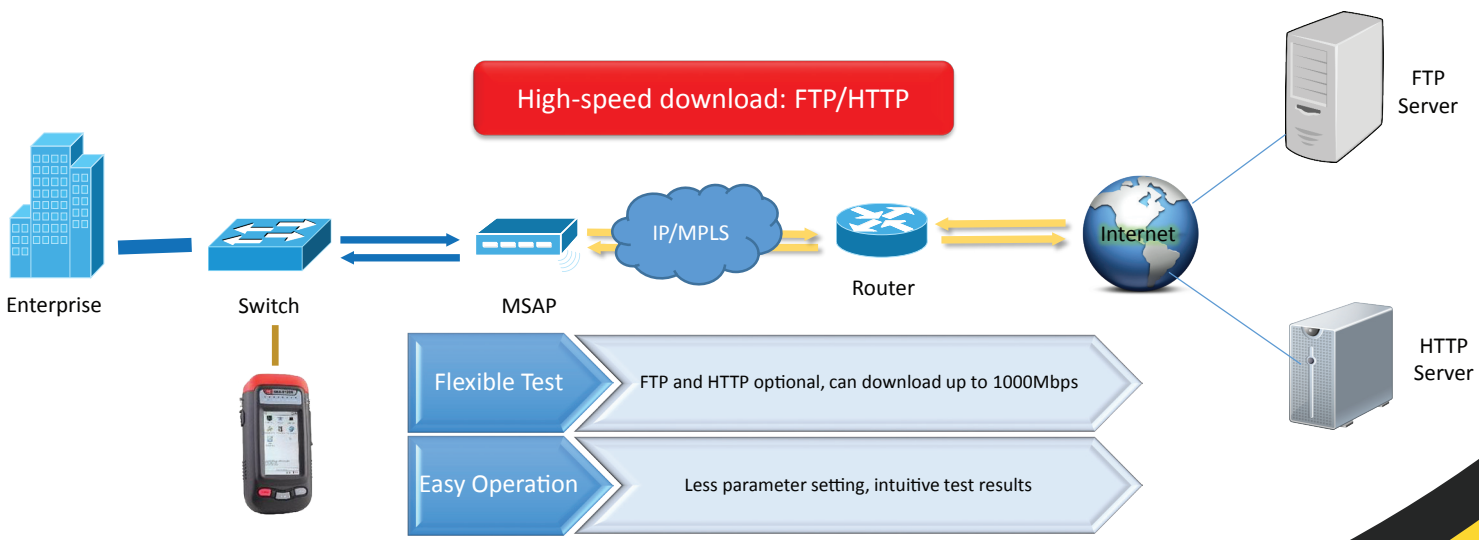
Instrument can PING the remote router check that link no problem and failure occurs on the client side. If there is no problem, please use Step 2.



Can set the PING rate which up to 1000Mbps, through adjust the bandwidth to find the failure point

## IP lined bandwidth verification

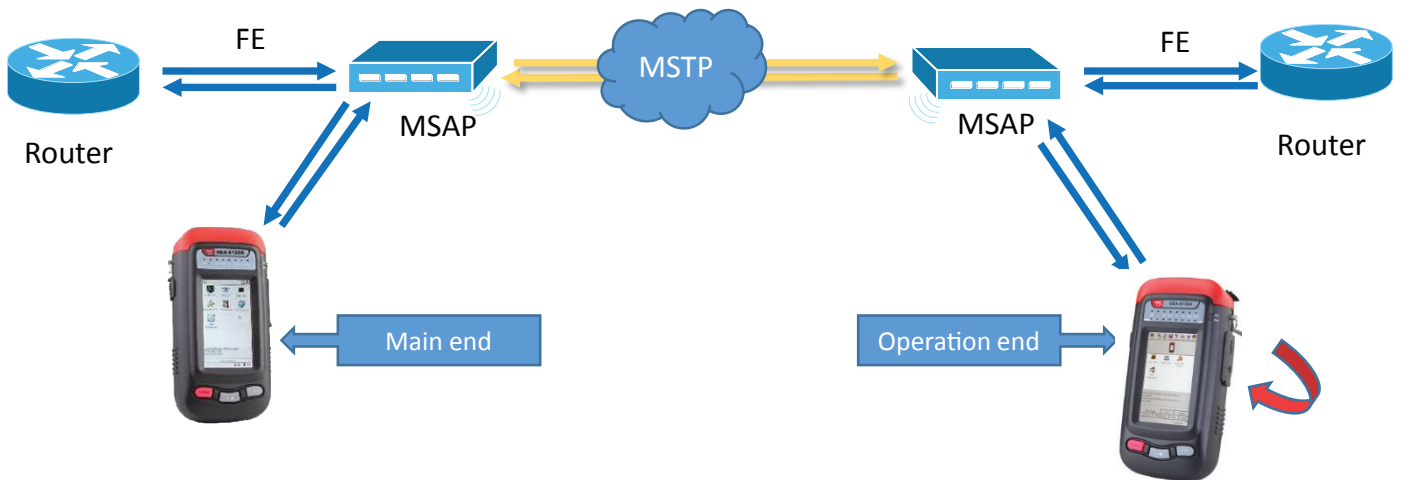
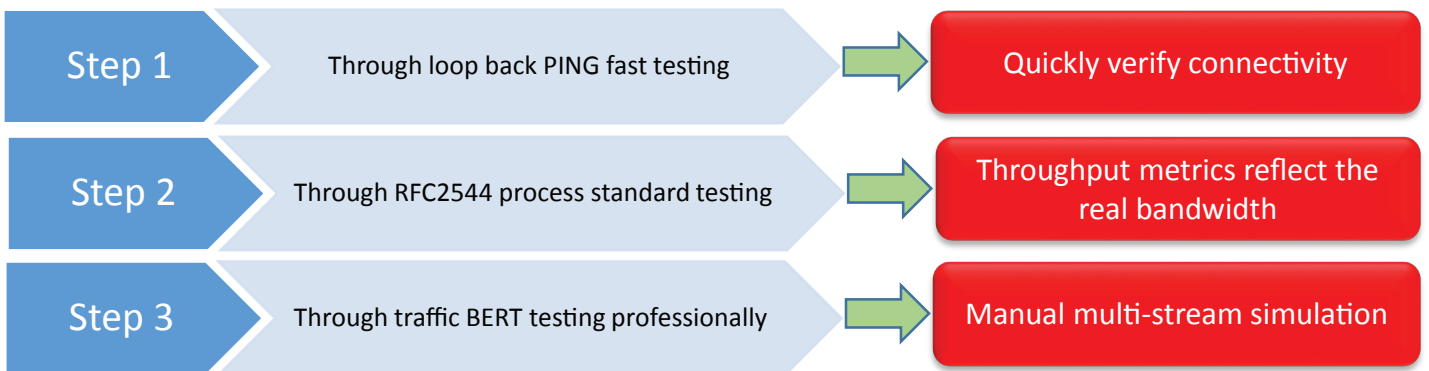
High-speed download: FTP/HTTP



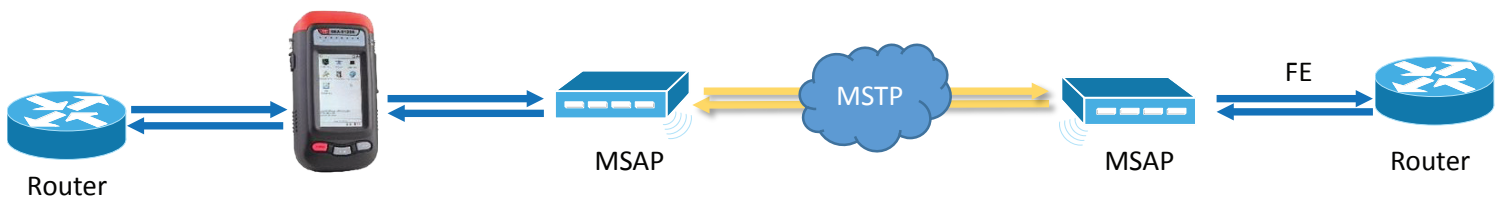
- Flexible Test** → FTP and HTTP optional, can download up to 1000Mbps
- Easy Operation** → Less parameter setting, intuitive test results

# Ethernet Analyzer Typical Applications

## MSTP lined bandwidth verification



## Traffic monitoring



Show the traffic on time and also can analysis and count the traffic rate

# Ethernet Analyzer



Ordering Information	Description	Part Number
	Ethernet Analyzer	OCT-5000
Packaging	Description	
	Cardboard box, 1 unit per box	
General Characteristics	Parameter	Value
	Data storage	2G SD Card
	Data manager	Copy, delete test data (test parameter, test result)
	Auto Test	Start performance tests up automatically by script file (Traffic Test and RFC2544)
	Protocol	DIX, 802.3SNAP
	Interfaces	RJ45 port, USB port, DC power
	Test interface	10/100/1000BASE-T×2 100/1000BASE-X×2
	Battery	Li-ion battery
	Screenshot	Screenshot into a PDF file
	Operation time	>7 hours
Physical Characteristics	Parameter	Value
	Dimensions	210 mm x 110 mm x 60 mm
	Weight	1 Kg
Mechanical Characteristics	Parameter	Value
	Operating temperature	-10 ~ 50°C
	Storage temperature	-40 ~ 70°C
	Relative humidity	10 ~ 90%



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OCT-5000 Data Sheet  
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