# NetProbe10GR

Remote Loopback Device for 10 Gigabit Ethernet Networks

The NetProbe 10GR reflector provides loopback functionality in a low-cost, handheld device. It's a smart loop device that swaps the source and destination addresses in MAC and IP headers as necessary to run Ethernet performance tests.

## Main Feat

- Portable, lightweight and rugged device.
- Supports electrical (RJ-45) and optical interfaces (SFP, SFP+ and XFP).
- Supports full rate loopback on Layers 1, 2, 3 and 4.
- Simple remote web and push button operation. Buttons select Interface, Medium, Loop Layer and Loop Filter.
- IP Ping and Traceroute for Layer 3 connectivity tests.
- Supports industry standard carrier Ethernet validation tests: RFC-2544, Y.1564, and Bit error rate (BER).
- Remote web operation provides important Tx/Rx stats including Frames/sec, #Frames, #Short Frames, Unicasts, Broadcasts, Multicasts, Dropped, Packet:s and CRC errors.
- Quickly enable DHCP on LAN management port by holding the Loop Layer button for 4 seconds.
- Easily return to defaults by holding the Loop Layer button for 4 seconds.
- Supports smart loopback as per Layer of Rx Data.
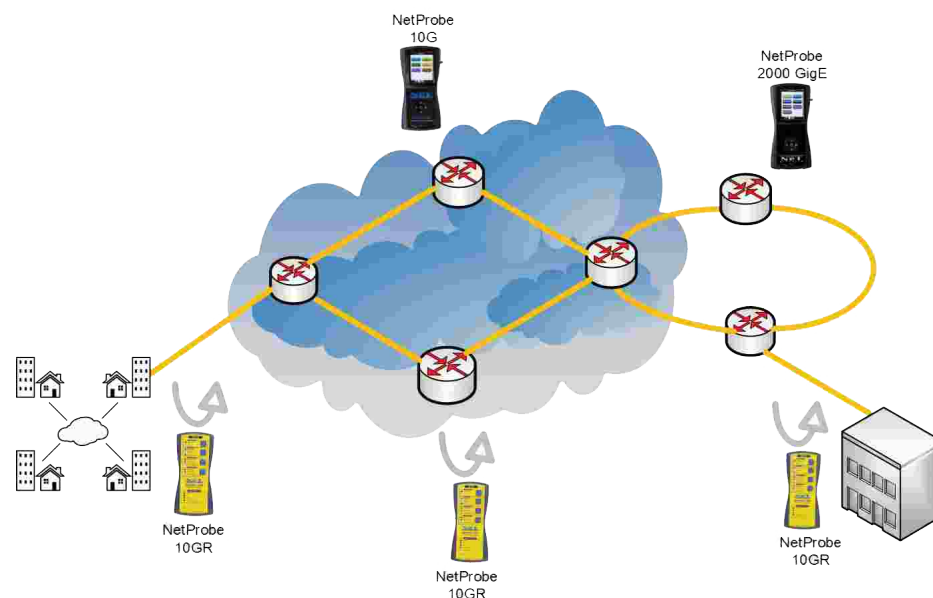- Compatible with end-to-end testing with NetProbe 2000 and NetProbe 10G and other Ethernet test sets.

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When Ethernet and IP traffic passes through a switch or router, the source and destination addresses are checked and used for directing the traffic. Thus, a simple hard loop will not work as it would with T-carrier. The NetProbe 10GR is needed to swap the source and destination addresses in the MAC and IP headers.

With a NetProbe 10G or NetProbe 1G on one end of an Ethernet circuit and the NetProbe 10GR on the other end, a technician can qualify the bit error rate, measure throughput, jitter, latency, frame loss and more.

*The NetProbe 10GR allows the specified Ethernet port to loop back incoming Ethernet frames on layer 1, 2, 3 or 4 back to the sender for end-to-end testing.*



| Specifications | |
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| *Test Ports* | *1000Base-X (SFP)*<br>*10GBase (SFP+)*<br>*10GBase (XFP)*<br>*10/100/1000Base-T (RJ-45)* |
| *Management Port* | *Dual 10/100/1000Base-T (RJ-45) supports daisy-chain* |
| *Display* | *Keys and Remote Web Operation*<br>*Status LEDs (10/100M, 1G, 10G, Full Duplex)* |
| *Operating/Storage Temperature* | *-10C — 50C or 14F — 122F / -20C — 70C or -4F — 158F* |
| *Operating/Storage Humidity* | *10% — 90% / 5% — 95%* |
| *Dimensions* | *L×W×H: 8.25 x 4.00 x 1.50 (in) or 20.96 x 10.16 x 3.81 (cm)* |
| *Weight* | *.5KG or 1.1 lbs.* |
| *Power Requirement* | *12 Volts @2A.* |

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