

Full Core Network Monitoring

Epitiro's AT200 probe measures Quality of Service (QoS) Key Performance Indicators from aggregation points throughout the network. With exceptional test capability and a price point that scales economically, the AT200 is ideal for national wholesalers and incumbent operators that need extensive end-to-end network monitoring.

The AT200 probe enables telcos, regulators, ISPs and enterprises to benchmark services, manage networks and troubleshoot faults. Under the control of Epitiro's flagship ISP-I Management platform, the AT200 probes perform a remotely-configurable suite of real-time tests and forward the results to a common database which can be viewed using the on-line ISP-I Dashboard.

Tests can be scheduled to run at various times of the day – typically peak and off-peak – to provide a rich database of metrics that can be analysed with the dashboard or sent as a data-feed to external programs.

A silent background mechanism automatically updates the AT200 so that new software releases and support for additional functionality and network protocols can easily be deployed.

Reporting and Data Recording Mechanisms

The AT200 reports test results to ISP-I central (Epitiro-managed) control servers on a configurable schedule, using secure HTTP-based transportation.

Communication of configuration, results and software updates between the AT200 and the control centre servers uses MD5 encryption to ensure this secure transmission of data.

Epitiro provide an extremely flexible reporting interface via the ISP-I platform and can additionally develop customized reporting to further meet requirements. All results are stored in real-time in a server-side SQL database.



Features

- Measure network performance from various points in the core network
- Support for all DSL, Cable, Fiber (FTTx), 3G HSPA, WiMAX and LTE networks
- RFC-2544 IP testing capability including TCP Throughput, HTTP, Latency Packet Loss, Jitter, Traffic Management, Email
- Video streaming tests with comprehensive QoS reporting
- Rackmount or Small form factor

Benefits

- Benchmark and compare services across national / international networks
- Pinpoint customer-affecting faults in the network
- Use for capacity planning and testing of new services

Data Tests

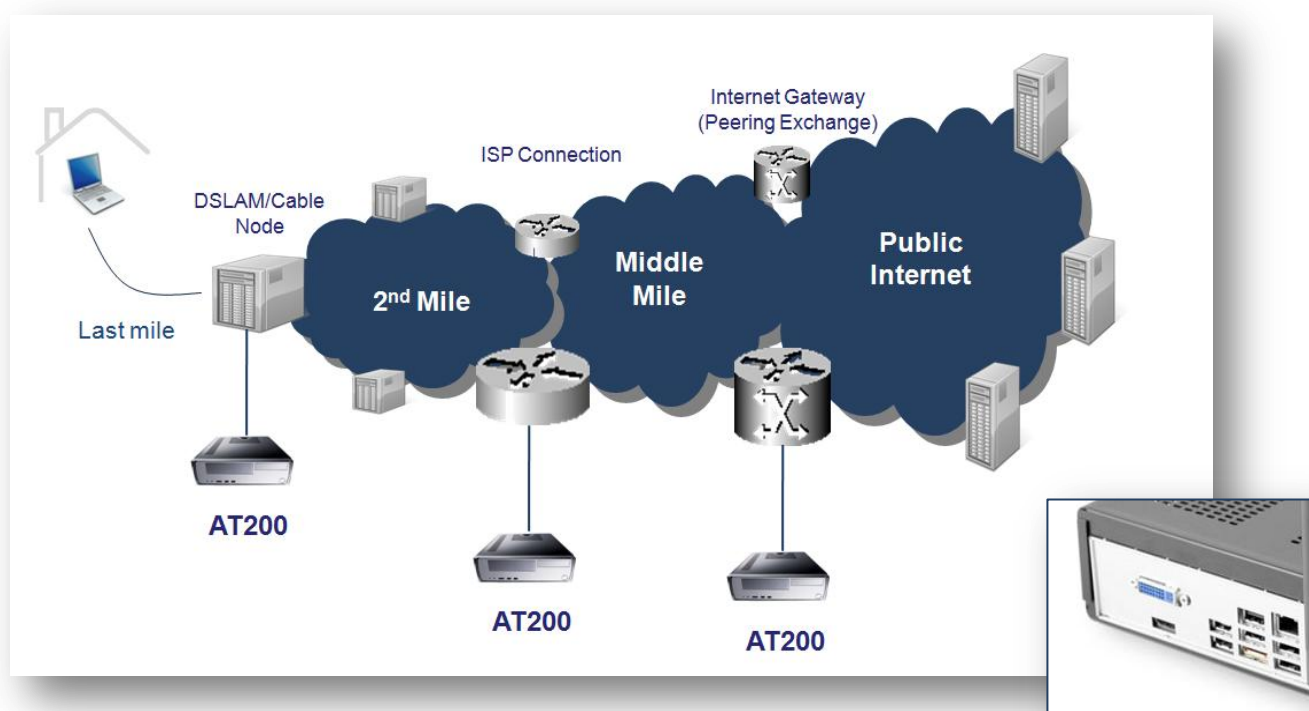
The AT200 tests key performance indicators (KPIs) for data testing such as;

- TCP or UDP based 'Up To' speed tests to end-point servers off-net or on-net
- HTTP cached and un-cached downloads
- Network Latency: ICMP-based echo request
- Packet Loss
- DNS Performance

Additionally, Traffic Management testing is possible as is testing of email services.

Video Tests

Streaming video can be tested from an Epiro Endpoint based on KPIs such as Start-up time, Non-playing time (msecs) / Re-buffering Time (msecs), Bandwidth/Throughput (Mbps), Delivered Bandwidth (Mbps) and Delivered Frame Rate (fps).



The **AT200** connects to any aggregation point in the core network and can operate from a variety of power sources to suit most environments. Epiro's range of probes includes the AT400 1U unit for complete voice, video and broadband analysis, AT100 for residential monitoring from the CPE and the AT50 software probe that monitors broadband from a customer's computer.

AT200 Specifications	
Device Type:	AT200 Test Probe
Main Processing:	Tyan s3115, Atom DC 330 processor, 1GB RAM DDR II 667, 80GB SATA
Physical Characteristics:	Small form (H 62mm x W 192 mm x D 210mm, 2.1 kg) or 1U Rackmount
Remote Management Protocol:	MD5 Encrypted HTTP
Configurable Interfaces:	2 x RJ-45, 2 X USB 2.0, IPMI AST 2050 remote access & power management
Compliant Standards:	CE, IC CS-03, FCC
Power:	120-240VAC , 50-60 Hz, 0.6A / 144W, -48VDC 3.0A 144W
Operating Temperature Range :	10° C - 35° C (50° F - 95° F) 10 - 85% humidity

For more information on products from Epiro please see www.epitiro.com.