## POWERFUL PLATFORM

- Three layers of processing stretch across available blades for each protocol monitored
- Five times the processing density and 35 times the intra-cage packet bandwidth of COTS (Commercial Off-the-Shelf) hardware
- 800 Gbps line rate support

# GeoProbe® GeoBlade™

## High Density Monitoring for Exponential Traffic Growth

### Powerful Platform Maximizes Capacity and Flexibility

Network traffic volumes are already at an all-time high with more growth on the horizon. At over a billion smartphone users worldwide, your subscribers' insatiable appetites for mobile data will quickly outpace your ability to cost-effectively monitor it—until now.

Introducing GeoProbe® GeoBlade™ from NETSCOUT. Designed to meet the high resiliency and reliability targets of modern communications service providers (CSPs), GeoBlade can help you address massive traffic growth while minimizing the total cost of ownership (TCO) and physical footprint.

As the newest member of the GeoProbe family, the new architecture spans IP-based technologies and services with elastic software and innovative modular hardware. Leverage highly customizable configurations for the tightest control over how network data is processed by protocol and the desired granularity. Protect mission-critical data with automatic load balancing. IrisView's seamless user experience extends across the GeoProbe family with single sign-on access to the familiar workflows of our Iris suite of tools. Interoperable with existing GeoProbe deployments, GeoBlade empowers you to confidently address your network now and into the future.

## Protocol Support

- Mobile data and data center protocols: Gn/Gi
- Next generation 4G network protocols: LTE/EPC/VoLTE
- Multimedia and convergence protocols: VoIP/IMS

## Networking Requirements

6 connections and associated IP addresses

## Interface Support

- 10G: 10Gbase-SR (850nm, multimode) and 10Gbase-LR (1310nm, single-mode)
- 1G: 1000base-SX (850nm, multimode) and 1000base-LX (1310nm, multimode or single-mode), and 1000base-T (RJ-45, cat5)
- All optical ports are LC-type connectors

## Storage Complex

- Subsystem components: storage server, storage shelves
- Data storage: RAID 6
- 4TB Nearline SAS technology

## Power Consumption

| Solution | All components have dual DC or AC power | |
|---|---|---|
| Chassis | 6000W typical *, 4580W reduced power option (8580W maximum) | |
| | -40 to -72 VDC (60A maximum, by four) | AC requires a converter |
| Storage Server | 550W typical (800W maximum) | |
| | -40 to -72 VDC (20A maximum) | 100 to 240 VAC (8A maximum) |
| Storage Shelf | 850W typical (1200W maximum) | |
| | -40 to -72 VDC (30A maximum) | 200 to 240 VAC (6A maximum) |

* Assuming all blades are populated

## Cabinet Dimensions and Weights

| | Rack Space (Height) | Rack Depth | Rack Width | Weight (Fully Loaded) |
|---|---|---|---|---|
| Chassis | 16U (27.95 in.) | 40 in. (1000 mm) minimum | 4-post 19 in. | 157.40 kg (347 lbs.) Empty chassis: 74.84 kg (165 lbs.) |
| Storage Server | 2U (3.44 in.) | | | 25 kg (55 lbs.) |
| Storage Shelf | 4U (6.97 in.) | | | 96.16 kg (212 lbs.) |

## Platform Highlights

- Layered processing manages the packets, flows, and sessions based on individual protocol needs
- Scales to support 10 Gbps to 100's of Gbps
- 24x7 state-based monitoring and correlation of user and control plane data
- Real-time packet processing and dynamic classification
- Automatic traffic rebalancing for monitoring stability
- User-defined settings for processing and storage priority and overload protection
- Integration with field-proven Iris applications

## Modular Design

No matter the size of your network, GeoBlade supports your current capacity and scales into the future with modular blades that allow you to define monitoring limitations – not the hardware. The flexible software enables you to focus on the data you care about and to determine the granularity of the data collected.

## Packet Storage Subsystem

GeoBlade efficiently evaluates packets, utilizing all available processors and bandwidth to enrich and summarize data at each processing step. The elastic software enables the storage subsystem to scale, for the control and flexibility needed to process and store different protocols at different granularity levels.

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