

400G FLOWPROBE

TRAFFIC MONITORING IN 400GBPS BLOCKS

Full network visibility with the world's highest density enriched flow metadata generator

UNSAMPLED

FlowProbe provides enriched, unsampled, real-time flow records across all network sessions for use in cyber, NPMD and compliance monitoring.

L4 - L7 VISIBILITY

Seamlessly fuse L7 protocols including HTTP, SSL, SIP, DNS and TCP session timing information before delivery to SecOps and digital forensics teams providing accurate, real-time intelligence for comprehensive cyber threat investigations. Up/down link flows are stitched together into one record for effective downstream analysis and data volume reduction.

DEPLOYMENT

Rapidly deployable and easy integration enables visibility for deep cyber threat analysis on high volume networks at 400Gbps. The 1U appliance is easily incorporated in all server rooms for comprehensive coverage of large network deployments, peering links or data centre backbones.

DE-TUNNELLING

Automatically detect tunnelled traffic (GRE, GTP, MPLS and IP-in-IP) providing visibility of encapsulated traffic to further enhance visibility and protection over your network, reducing the opportunity for cyber threats to hide and further increasing threat detection.



KEY FEATURES

Instruments up to 256 Million concurrent flows at a rate of 7M flows/s	Monitor large scale network traffic for cyber security analysis, NPMD and compliance
Passively monitors 4 x 100GbE	Connect to large scale monitoring infrastructure, peering links, national xSP and large data-centres
De-tunnels GTP, GRE, MPLS and IP-in-IP traffic	Monitor large scale/national xSP and telco networks
Duplicate packet detection and removal	De-duplication improves monitoring tools efficiency, accuracy and storage requirements
Enhances records with BGP, SSL, DNS, SIP, HTTP host and HTTP URI	Layer 7 visibility and control for granular user management
Exports flow records to Telesoft TDAC or other compatible IPFIX collector or JSON consumer	Quickly deploy accurate, large scale network visibility and analysis
Application and content classification in encrypted TLS1.0 - 1.3	Actionable intelligence in current & emerging encryption standards

HEADQUARTERS

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TECHNICAL SPECIFICATIONS

Physical	<ul style="list-style-type: none"> • 1RU 19-inch rack mount • 1.7x1.72x30.6 in (4.3x43.7x77.7 cm)
Monitoring Interface	4 x 100GBASE-LR4 QSFP28
Tunnelling Support	Configurable to automatically detect and de-tunnel: MPLS, IPinIP, GRE, GTP
Flow Export Interface	<ul style="list-style-type: none"> • 2 x 10GbE Fibre Interface with swappable transceivers • Up to 32 IPFIX collectors
Throughput	<ul style="list-style-type: none"> • 7M simplex flows per second • 256M active flows
Flow Record Format	<ul style="list-style-type: none"> • IETF RFC7011/RFC7012 IPFIX • Export formats: IPFIX, JSON (Netflow/IPFIX/ JSON) • Supported Collectors: Telesoft TDAC, Kafka, Elastic or other IPFIX/Netflow compatible collectors
Enhanced flow data	<ul style="list-style-type: none"> • HTTP Host and URI: Rapidly know which IP addresses have visited which websites without any additional lookup, check for abnormal behaviour and look for connections to rogue URIs • HTTP Return Code: Check for abnormalities, such as machine initiated attacks indicated by a high level of 404 • Supports SIP method, request URI and response code • Server Name from SSL certificate exchange: Check for abnormal behaviour or investigate specific servers of interest • DNS query name, response name, address: Detect suspicious and rogue DNS servers • Correlation of IP address to autonomous systems (AS), to map network infrastructure • TCP session timing (SYN / SYN-ACK): Detect anomalies and classify traffic • JA3 SSL fingerprinting enables MD5 checksum identification against a JA3 database
Power Stats	400W typical, and 550W peak

ORDER OPTIONS

Part Number	Description
500003074	400G FlowProbe, 1U, QSFP28, 4x100GbE
500003082	100G QSFP28 LR4 Transceiver
500002853 (Note 1)	10GBase-SR optical SFP+ transceiver 850nm, Single-mode LC
500003012 (Note 1)	10GBase-ER optical SFP+ transceiver 1550nm, Single-mode LC
500002852 (Note 1)	10GBase-LR optical SFP+ transceiver 1310nm, Single-mode LC

Note 1 - Optional collector interface transceivers

Other transceivers may be used but must be on approved list. Contact Telesoft for more information.



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