

# Vision 400 and Vision 400XT NextGen Network Packet Broker

Scale Your Visibility to 400G Speed



## Product Description

Keysight's Vision 400 and Vision 400XT are next-generation network visibility solutions with comprehensive feature sets to meet the ever-evolving visibility needs of your production network, for up to 400Gbps network speed.

Highly compact and 1RU in size, Vision 400 and 400XT front panel provides 24 SFP56 and 16 QSFP-DD ports. Each QSFP-DD can break out to many smaller speed ports (200G, 100G, 40G, 50/25/10G) via fan-out cable. This new generation of packet brokers allows advanced packet transformation and processing at the chipset level, including header stripping, packet trimming, timestamping, packet deduplication, data masking...

Additional FPGA based PacketStack supports 400G deduplication, packet trimming, generic header stripping, legacy Ixia trailer timestamping, and burst protection. Advanced load balance options support load balancing per port group. In addition to traditional session-aware load balance, new options also allow asymmetric LB, weighted LB, random LB, and LB using tunneled IP header.

The built-in powerful 16-core CPU allows support of AppStack, Decryption, and TradeStack for V400 version, while V400XT embeds 32-core and more memory for advanced applications: MobileStack for 5G and more powerful application intelligence with Appstack – this is truly an all-in-one solution.

# Key Features

- **Automated filter compiler** resolves overlap rules seamlessly, allowing quickest response to tool or filtering changes without worry of blind spots.
- **Header stripping, tunnel termination, Deduplication+, IP/MAC masking and timestamping** (PacketStack Plus) on all ports require no FPGA resources.
- **Built-in 400G FPGA based PacketStack** support 16 lanes of 25Gbps each for advanced packet processing such as Deduplication, Packet Trimming (including HTTPS and QUIC trimming), Generic Header Stripping, Ixia trailer Timestamping, and burst protection/traffic shaping.
- **Vision 400 : Built-in powerful 16-core CPU** supports AppStack, SecureStack and TradeStack.
- **Vision 400XT : Built-in powerful 32-core CPU** supports MobileStack, Appstack, and TradeStack
- **Supports over 20 protocols** header stripping and tunnel termination
- **Two banks** of load balance options, and load balancing on per port group basis
- **Load Balance** on both outer IP and tunneled inner IP. All well-known tunnel protocols are supported
- **GTP User Plane Load Balance** based on inner IP information (User sessions)
- **User session filtering** inside GTP User Plane tunnels (Explicit tunneled IPv4 and IPv6 filtering)
- **Space efficient 1RU design** saves rack space in your data center
- **Flexible L2GRE and VxLAN** tunnel origination. Up to 256 tunnels per chassis.
- **Comprehensive wizards** make inline tool deployment extremely easy for complex use cases that require tool sharing or VLAN translation (V400 only)
- **Secure serial console** port with authentication
- Support **management port** IP allow-list

# Product Capabilities

## NetStack

Robust filtering, aggregation, replication and more – the gold standard for network traffic visibility. The following traffic visibility capabilities combined as NetStack are the foundational set available as standard features for Keysight’s industry-leading network packet brokers.

|                                                                                                                       |                                                                                                                                 |                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Three Stages of Filtering</b><br> | <b>Aggregation</b><br>                         | <b>Intersection Mode Filtering</b><br> |
| <b>Replication</b><br>               | <b>Priority Based Filtering</b><br>            | <b>Load Balancing</b><br>              |
| <b>Dynamic Filter Compiler</b><br>   | <b>Source Port Labeling (VLAN Tagging)</b><br> |                                                                                                                           |

[Learn more about NetStack features](#)

## PacketStack

Full, line rate intelligent packet processing. Modify every packet at line-rate using any combination of Keysight’s FPGA based PacketStack (AFM) capabilities. Flexibly assign 400 Gbps of total processing capacity to any port or dynamic filter in 25 Gbps increments.

|                                                                                                                         |                                                                                                                         |                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Deduplication</b><br>             | <b>Generic Header Stripping</b><br>  | <b>Packet Trimming (Slicing)</b><br> |
| <b>Ixia Trailer Timestamping</b><br> | <b>Extended Burst Protection</b><br> |                                                                                                                           |

[Learn more about PacketStack features](#)

## PacketStack+

Perform advanced packet processing such as header (protocol) stripping, deduplication, data masking, timestamping, and GRE/VxLAN tunnel origination at all ports for all speeds.

|                                                                                                                                |                                                                                                                       |                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Deduplication</b><br>                      | <b>Protocol Header Stripping</b><br> | <b>Packet Trimming (Slicing)</b><br> |
| <b>Timestamping</b><br>                       | <b>Data Masking</b><br>              | <b>Native Tunnel Termination</b><br> |
| <b>L2GRE and VxLAN Tunnel Origination</b><br> |                                                                                                                       |                                                                                                                         |

[Learn more about PacketStack+ features](#)

## PacketStack PLUS for Finance

PacketStack PLUS for Finance takes the standard PacketStack+ available on both the E400S and Vision 400 and tailors it to the finance and capital markets community, providing per-port ingress timestamping with double digit nanosecond accuracy to UTC , in the SRCMAC replacement format consumed by market data and order entry analytics tools and utilities and feed aware filtering capabilities – giving any user the ability to rapidly set up complex filters to aggregate and filter market data traffic to tool ports without the risk of errors that manual filter configuration causes. This capability uses an inbuilt database of over 35,000 market data feeds - the Keysight DTSP (Decoder Trading Solutions Package).

**PacketStack PLUS for Finance is only compatible with TradeStack, and cannot be purchased for use with PacketStack.**

## AppStack

Context aware, signature-based application layer filtering. Relying on both static traffic pattern identification and dynamic application discovery, AppStack provides a comprehensive view of which applications are running within your network, what bandwidth they consume, and where these applications are running geographically.

Pinpoint and mask sensitive information anywhere in the data, using advanced RegEx, with pre-defined detection for e-mail addresses, social security numbers and credit card numbers.

IxFlow empowers Big Data, observability, security and performance monitoring tools by generating enriched metadata with support for NetFlow, IPFIX, JSON, Kafka and Pulsar.

|                                                                                                                        |                                                                                                                     |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Identification</b><br> | <b>Geolocation and Tagging</b><br> | <b>RegEx Filtering</b><br>                    |
| <b>IxFlow</b><br>                     | <b>Packet Capture</b><br>          | <b>Application Signature Subscription</b><br> |
| <b>Data Masking +</b><br>           |                                                                                                                     |                                                                                                                                  |

[Learn more about AppStack features](#)

## SecureStack (Vision 400 Only)

Optimized handling for secure traffic. SecureStack allows organizations to inspect encrypted data and enable tools to detect threats and malware hiding in encrypted traffic.

|                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|
| <b>Inline Decryption</b><br> |
|-----------------------------------------------------------------------------------------------------------------|

[Learn more about SecureStack features](#)

## TradeStack

Market Data is the lifeblood of any trading operation and the ability to prove the integrity of market data is at the core of trusted trading. Keysight TradeStack provides market data analytics monitoring market data feeds for multicast gaps, microbursts and health, latency & jitter analytics, as well as a host of other metrics. Leveraging a Keysight managed database of over 34,000 channels across the global financial markets, Keysight TradeStack puts market data and financial network monitoring at the fingertips of any operator, right where you need it.

**TradeStack requires the enablement of PacketStack PLUS for Finance as a pre-requisite for use.**

## MobileStack (Vision 400XT Only)

Network visibility for mobile operators: High Performance optimized for cost savings.

MobileStack significantly reduces probe traffic, focusing on crucial data to monitor subscriber quality of experience, essential in managing the transition to 5G with efficiency. This ensures optimal use of monitoring infrastructure, leading to considerable cost reductions. As 5G traffic increases, the integration of MobileStack with AppStack amplifies AI/ML analytics capabilities, providing deep insights into network operations and enhancing subscriber quality of experience (QoE).

|                                                                                                                        |                                                                                                                         |                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>5G Data Access</b><br>            | <b>GTP Correlation</b><br>            | <b>Subscriber Filtering</b><br>     |
| <b>Subscriber Sampling</b><br>      | <b>Subscriber Load Balancing</b><br> | <b>Subscriber Allowlisting</b><br> |
| <b>Metadata &amp; Analytics</b><br> |                                                                                                                         |                                                                                                                         |

[Learn more about MobileStack features](#)

## Vision 400 and Vision 400XT Features

| Feature          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical         | Space efficient 1RU design that saves rack space in your data center and supports 10/25/40/50/100/200/400G port speeds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                  | Front panel includes 24 SFP56 and 16 QSFP-DD ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | Industry only 400G NPB that supports all QSFP-DD speed permutations: 1x400G, 2x200G, (1,2,4)x100G, (4,8)x50G, (1,2)x40G, 8x25G, 8x10G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                  | Hot-swappable fans, power supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | Full-duplex, non-blocking, and line rate L2 forwarding of 9.2 Tbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Architecture     | New generation advanced programmable silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                  | V400 : Built-in 16-core CPU supports AppStack, SecureStack and TradeStack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                  | V400XT: Built-in 32-core CPU supports Appstack, TradeStack and MobileStack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                  | Additional 400G FPGA based PacketStack supports deduplication, packet trimming, Ixia trailer time stamping, and burst protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                  | Timing sources support NTP, 1588 PTP, or 1PPS+ToD (G.8271) with two independent 1PPS SMA/SMP connectors (T1 and T2). As such, Vision 400 and Vision 400XT allow rich combination of timing sources: <ul style="list-style-type: none"> <li>PPS-T1 + NTP = Take ToD from NTP and use 1PPS from T1 input</li> <li>PPS-T2 + NTP = Take ToD from NTP and use 1PPS from T2 input</li> <li>PPS-T1 + PTP = Take ToD from PTP and use 1PPS from T1 input</li> <li>PPS-T2 + PTP = Take ToD from PTP and use 1PPS from T2 input</li> <li>PPS-RJ45 + G.8271 = Take ToD from G.8271 format and use 1PPS from RJ45 pin</li> <li>PPS-T1 + G.8271 = Take ToD from G.8271 format and use 1PPS from T1 input (ignore the RJ45 1pps input)</li> <li>PPS-T2 + G.8271 = Take ToD from G.8271 format and use 1PPS from T2 input (ignore the RJ45 1pps input)</li> </ul> |
| Traffic handling | Two banks of load balance options, and load balancing on per port group basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                  | Per port group load balancing. Algorithms include session aware, asymmetric, weighted, tunneled packet type, and random                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                  | Load Balance on both outer IP and tunneled inner IP. All well-known tunnel protocols are supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | GTP User Plane Load Balance based on inner IP information (User sessions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                  | User session filtering inside GTP User Plane tunnels (Explicit tunneled IPv4 and IPv6 filtering)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                  | Flexible L2GRE and VxLAN tunnel origination. Up to 256 tunnels per chassis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                  | All ports of all speeds support up to 20 protocols header stripping, tunnel termination, masking and time stamping (PacketStack+)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                  | Supports both Inline (Vision 400) and Out-Of-Band (Vision 400 and Vision 400XT) tool deployments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                  | Comprehensive wizards make inline tool deployment extremely easy for complex use cases that require tool sharing or VLAN translation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Inline Capabilities (Vision 400 Only)

| Requirement            | Inline Capability                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Service chaining       | Supports failsafe serial service chaining, parallel load balancing with spares, or combined topologies                                                                          |
|                        | Advanced load balance options include weight-based LB and high-and-low watermark LB                                                                                             |
|                        | Asymmetric hashing supports common use cases for lawful interception                                                                                                            |
| Heartbeat support      | Customizable Heartbeat (HB) support to detect and automatically recover from monitoring and security tool failures                                                              |
|                        | Multiple HB templates allow each tool to have its own unique HB                                                                                                                 |
|                        | Bypass switches and Keysight Vision 400 can have different HB so multi-tier design is possible to increase overall resilience                                                   |
| High Availability (HA) | Vision 400's Active-Active Inline HA solution is the gold standard in the industry and offers the most resilient architecture to protect all kinds of failures                  |
|                        | Inline coordinated responses include Bypass Port Pair (BPP) triggered response, and Inline Tool Resource (ITR) selective synchronization between HA primary and secondary units |
| Inline decryption      | Easily combine decryption offload with a service chain of security tools                                                                                                        |

# Network Packet Broker Management

## Keysight Vision Orchestrator

Keysight Vision Orchestrator (KVO) offers intent-based visibility for its users and its main goal is to provide a single pane of glass for Keysight visibility solutions, covering both physical and virtual world. KVO has two key components, element management and data path management. Key functional blocks of each component are listed below:

### Element management

- KVO User management - Single Sign On
- Granular Role and Resource Based Access Control
- Custom Dashboards and Reporting
- Event Management
- Software Upgrade Automation
- Centralized License Management

### Data path management

- Cluster Management
- Intent-based Network Policies
- Policy Scheduler
- Self-healing Visibility Fabric
- Global Change Management
- Audit Trail of Changes
- Open API for fabric management

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#### Keysight KVO



Keysight Vision Orchestrator can manage hundreds of visibility nodes in the Cloud, Data Center, or Edge. This enables organization to scale and operate their visibility solutions across their entire environment with the ease of intent-based policies.

[Learn more about Keysight's KVO](#)

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# Port Configuration

|                               | SFP56 Front Ports | QSFP-DD Front Ports |
|-------------------------------|-------------------|---------------------|
| Number of ports               | 24                | 16                  |
| 10G or 25G using NRZ encoding | Yes               | n/a                 |
| 50G using PAM4 encoding       | Yes               | n/a                 |
| QSFP-DD support               |                   | 1 x 400G            |
|                               |                   | 2 x 200G            |
|                               |                   | (1,2,4) x 100G      |
|                               |                   | 8 x 50G             |
|                               |                   | (1,2) x 40G         |
|                               |                   | 8 x 25G             |
|                               |                   | 8 x 10G             |

## Product Specifications

### General Specifications

|                       |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Airflow direction     | Front to rear                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                               |
| MTBF (hours) at 25 °C | Base Chassis                                                                                                                                                                                                                                                                                                                 | 98,728 hrs MTBF                                                                                                                                                                                                                                                                                               |
|                       | Chassis + 2 AC PSUs + 7 fans                                                                                                                                                                                                                                                                                                 | 68,563 hrs MTBF                                                                                                                                                                                                                                                                                               |
|                       | Chassis + 2 DC PSUs + 7 fans                                                                                                                                                                                                                                                                                                 | 67,227 hrs MTBF                                                                                                                                                                                                                                                                                               |
| Management            | <ul style="list-style-type: none"> <li>Intuitive Web GUI, TLS 1.2</li> <li>SNMP v1, v2, v3 Requests, Inform Requests and Traps support</li> <li>Supports IEEE 1588 / Precision Time Protocol (PTP) time synchronization</li> <li>Local, RADIUS, TACACS+ and LDAP support (users and groups)</li> <li>IP allowlist</li> </ul> | <ul style="list-style-type: none"> <li>Granular access control features</li> <li>Event monitoring and logging</li> <li>Syslog (cleartext or encrypted)</li> <li>IT Automation control with RESTful API</li> <li>IPv4, IPv6, static or DHCP</li> <li>Secure serial console port with authentication</li> </ul> |

### Physical Specifications

|                           |                                                   |  |
|---------------------------|---------------------------------------------------|--|
| Physical size (W x D x H) | 44.5 x 78.7 x 4.5 cm<br>17.5 x 31.0 x 1.75 inches |  |
| Weight                    | 18.0 kg or 40.0 lbs                               |  |
| Rack mountable            | 1 RU for 19" rack-mountable chassis               |  |

## Electrical Specifications

|                       |                                        |  |
|-----------------------|----------------------------------------|--|
| Power AC              | 2 redundant hot swap AC power supplies |  |
| Input voltage         | 100-240 VAC (x2), 50-60Hz              |  |
| Input current         | Max. 15A @ 100 VAC                     |  |
| Power DC <sup>1</sup> | 2 redundant hot swap power supplies    |  |
| Input voltage         | Nom. 52-60 VDC (x2)                    |  |
| Input current         | Max. 35A                               |  |
| Heat dissipation      | Nominally 1350W / 4606 BTU/hour        |  |

<sup>1</sup> **Note:** Typical standoff voltage in DC deployment is 52-53VDC. 48V is the power provided by batteries upon a AC power failure/loss/brownout i.e. general power outage. The "Bel Power" DC power supply is designed to support the standoff voltage for nominal power, or power under charge 5260VDC range, but supports 44-72VDC power input MIN-MAX

## Environmental Specifications

|                       |                                                                           |                                                         |
|-----------------------|---------------------------------------------------------------------------|---------------------------------------------------------|
| Operating temperature | 5 °C to 40 °C                                                             | Short term <sup>1</sup> : -5 °C to 55 °C                |
| Operating humidity    | 5% to 85% RH (non-condensing)                                             | Short term <sup>1</sup> : 5% to 90% RH (non-condensing) |
| Storage temperature   | -40° to 70 °C                                                             |                                                         |
| Storage humidity      | 5 to 95%                                                                  |                                                         |
| Operating altitude    | Up to 2000 m                                                              |                                                         |
| RoHS                  | RoHS Directive 2011/65/EU; Annex II, Directive (EU)2015/863<br>China RoHS |                                                         |
| WEEE                  | WEEE Directive 2012/19/EU                                                 |                                                         |

1. (not to exceed 96 consecutive hrs)

## Compliance

| Regulatory Type                 | Standard                                               |
|---------------------------------|--------------------------------------------------------|
| Safety                          | EN IEC 62368-1                                         |
|                                 | UL 62368-1/CSA C22.2 No. 62368-1                       |
| EMC emissions                   | CISPR 32, Class A,<br>IEC 61000-3-2,<br>IEC 61000-3-3  |
|                                 | EN 55032, Class A,<br>EN 61000-3-2,<br>EN 61000-3-3    |
|                                 | FCC Part 15B, Class A                                  |
|                                 | CAN ICES-003(A)/NMB-003(A)                             |
|                                 | AS/NZS CISPR 32, Class A                               |
|                                 | KS C 9832, Class A,<br>KS C 9610-3-2,<br>KS C 9610-3-3 |
|                                 | VCCI - CISPR 32, Class A                               |
|                                 | CISPR 35                                               |
| EMC immunity                    | EN 55035                                               |
|                                 | KS C 9835                                              |
| Country / Region certifications | USA                                                    |
|                                 | Canada                                                 |
|                                 | EU                                                     |
|                                 | UK                                                     |
|                                 | Australia                                              |
|                                 | South Korea                                            |
|                                 | Japan                                                  |
| Country of origin               | USA, Malaysia                                          |

# Order Information

## Base Unit Vision 400

| Part Number                   | Description                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| SYS-V400-BASE-AC              | Keysight Vision 400, base AC system, includes chassis power supply and fan (991-0256)               |
| SYS-V400-BASE-DC              | Keysight Vision 400, base DC system, includes chassis power supply and fan (991-0257)               |
| SYS-V400-SPR-AC               | Keysight Vision 400, AC cold spare unit (991-0258)                                                  |
| SYS-V400-SPR-DC               | Keysight Vision 400, DC cold spare unit (991-0292)                                                  |
| <b>TAA Compliant Versions</b> |                                                                                                     |
| SYS-V400-BASE-AC-T            | Keysight TAA Compliant Vision 400, base AC system, includes chassis power supply and fan (991-0267) |
| SYS-V400-BASE-DC-T            | Keysight TAA Compliant Vision 400, base DC system, includes chassis power supply and fan (991-0274) |
| SYS-V400-SPR-AC-T             | Keysight TAA Compliant Vision 400, AC cold spare unit (991-0268)                                    |
| SYS-V400-SPR-DC-T             | Keysight TAA Compliant Vision 400, DC cold spare unit (991-0293)                                    |

## Base Unit Vision 400XT

| Part Number                   | Description                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| SYS-V400XT-BASE-AC            | Keysight Vision 400XT, base AC system, includes chassis power supply and fan (991-8208)               |
| SYS-V400XT-BASE-DC            | Keysight Vision 400XT, base DC system, includes chassis power supply and fan (991-8210)               |
| <b>TAA Compliant Versions</b> |                                                                                                       |
| SYS-V400XT-BASE-AC-T          | Keysight TAA Compliant Vision 400XT, base AC system, includes chassis power supply and fan (991-8209) |
| SYS-V400XT-BASE-DC-T          | Keysight TAA Compliant Vision 400, base DC system, includes chassis power supply and fan (991-8211)   |

## Port Licenses Vision 400 and Vision 400XT

| Part Number     | Description                                                                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-1PC    | Keysight Vision E400S, Vision 400 and Vision 400XT, 10/25/40/50/100G port speed enabled on (1) QDD port (993-0300)                                                       |
| SUB-V400-1PC    | Keysight Vision E400S and 400, one year subscription for 10/25/40/50/100G port speed enabled on (1) QDD port (993-0350)                                                  |
| LIC-V400-1PCD   | Keysight Vision E400S, Vision 400 and Vision 400XT, 10/25/40/50/100/200/400G port speed enabled on (1) QDD port (993-0302)                                               |
| SUB-V400-1PCD   | Keysight Vision E400S and 400, one year subscription for 10/25/40/50/100/200/400G port speed enabled on (1) QDD port (993-0351)                                          |
| LIC-V400-1PL    | Keysight Vision E400S, Vision 400 and Vision 400XT, 10/25/50G port speed enabled on (1) SFP56 port (993-0301)                                                            |
| SUB-V400-1PL    | Keysight Vision E400S and 400, one year subscription for 10/25/50G port speed enabled on (1) SFP56 port (993-0352)                                                       |
| LIC-V400-1PCD-U | Keysight Vision E400S, Vision 400 and Vision 400XT, 10/25/40/50/100/200/400G node-locked perpetual port license speed enabled on (1) QDD port, upgrade from LIC-V400-1PC |

## Feature Licenses Vision 400 and Vision 400XT

| Part Number                        | Description                                                                                                                                                                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PacketStack Capability</b>      |                                                                                                                                                                                                                                                                                                            |
| LIC-V400-PS2C                      | Keysight Vision 400 and Vision 400XT, 200G of PacketStack enabled features. Fully featured for FPGA. Max of (2) per Vision 400 device (993-0307)                                                                                                                                                           |
| SUB-V400-PS2C                      | Keysight Vision 400, one year subscription for 200G of PacketStack enabled features. Fully featured for FPGA. Max of (2) per Vision 400 device (993-0354)                                                                                                                                                  |
| <b>PacketStack Plus Capability</b> |                                                                                                                                                                                                                                                                                                            |
| LIC-V400-PSPL                      | Keysight Vision 400 and Vision 400XT. Fully featured PacketStack Plus features activated on every port which includes Timestamps PTP/NTP and 1PPS/G.703, fixed length masking, protocol header stripping and tunneling, packet trimming and deduplication on 4 Internal Loopback ports (993-0308)          |
| SUB-V400-PSPL                      | Keysight Vision 400. One year subscription for Fully featured PacketStack Plus feature activated on every port which includes Timestamps PTP/NTP and 1PPS/G.703, fixed length masking, protocol header stripping and tunneling, packet trimming and deduplication on 4 Internal Loopback ports. (993-0355) |
| LIC-V400-TUNL                      | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for L2GRE/VxLAN tunnel origination, activated on every port. Perpetual license (993-0327)                                                                                                                                                  |
| SUB-V400-TUNL                      | Keysight Vision V400. One year subscription for PacketStack Plus feature for tunneling, activated on every port (993-0431)                                                                                                                                                                                 |
| LIC-V400-DDUP-E                    | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for packet deduplication, activated on 4 ILB ports. Perpetual license (993-0421)                                                                                                                                                           |
| SUB-V400-DDUP-E                    | Keysight Vision V400. One year subscription for PacketStack Plus feature for deduplication, activated on 4 ILB ports (993-0428)                                                                                                                                                                            |
| LIC-V400-DDUP-U                    | Keysight Vision V400 and Vision 400XT. PacketStack+ feature for packet deduplication, extend from ILB port support only to full support on all ports (993-0422)                                                                                                                                            |
| SUB-V400-DDUP-U                    | Keysight Vision V400. One year subscription for PacketStack+ feature for packet deduplication, extend from ILB port support only to full support on all ports (993-0422)                                                                                                                                   |
| LIC-V400-TRIM                      | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for packet trimming, activated on every port. Perpetual license (993-0423)                                                                                                                                                                 |
| SUB-V400-TRIM                      | Keysight Vision V400. One year subscription for PacketStack Plus feature for packet trimming, activated on every port                                                                                                                                                                                      |
| LIC-V400-STRP                      | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for header stripping and tunnel termination, activated on every port. Perpetual license (993-0420)                                                                                                                                         |
| SUB-V400-STRP                      | Keysight Vision V400. One year subscription for PacketStack Plus feature for header stripping, activated on every port (993-0427)                                                                                                                                                                          |
| LIC-V400-MASK                      | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for fixed length masking, activated on every port. Perpetual license. (993-0419)                                                                                                                                                           |
| SUB-V400-MASK                      | Keysight Vision V400. One year subscription for PacketStack Plus feature for fixed length masking, activated on every port (993-0426)                                                                                                                                                                      |
| LIC-V400-TMPS                      | Keysight Vision V400 and Vision 400XT. PacketStack Plus feature for Timestamps PTP/NTP and 1PPS/G.703, activated on every port. Perpetual license (993-0418)                                                                                                                                               |
| SUB-V400-TMPS                      | Keysight Vision V400. One year subscription for PacketStack Plus feature for Timestamps PTP/NTP and 1PPS/G.703, activated on every port (993-0425)                                                                                                                                                         |

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**PacketStack PLUS for Finance**

|                     |                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-PSPLF-100  | Keysight, 400 series, perpetual PacketStack+ for finance license, enables per port timestamping. 24xSFP56 enablement up to 50G and 16xQSFP-DD up to 100G port speeds and installation of DTSP for filtering. (993-0381)        |
| LIC-V400-PSPLF-A400 | Keysight, 400G Add-on for PacketStack+ for Finance: Upgrades 16xQSFP-DD ports to 400G port speeds on devices which hold valid perpetual license for PacketStack+ for Finance (LIC-V400-PSPLF-100) (993-0382)                   |
| SUB-V400-PSPLF-100  | Keysight, 400 series, one (1) year subscription for Finance PacketStack+, enables per port timestamping. 24xSFP56 enablement up to 50G and 16xQSFP-DD up to 100G port speeds and installation of DTSP for filtering (993-0378) |
| SUB-V400-PSPLF-A400 | Keysight, 400G Add-on for PacketStack+ for Finance: Upgrades 16xQSFP-DD ports to 400G port speeds on devices which hold valid one (1) year subscription for PacketStack+ for Finance (SUB-V400-PSPLF-100) (993-0377)           |

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**AppStack Capability**

|                  |                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-AS-SSAS | Keysight Vision 400 AppStack perpetual feature; licensed for one (1) NSI (netstack instance), fully featured AppStack (993-0362) |
| SUB-V400-AS-SSAS | Keysight Vision 400 one year subscription for fully featured AppStack, licensed for one (1) NSI (netstack instance) (993-0363)   |
| LIC-V400-AS-APFL | Keysight Vision 400 AppStack Application Filtering feature per NSI (netstack instance) (993-0303)                                |
| SUB-V400-AS-APFL | Keysight Vision 400 one year subscription for AppStack Application Filtering feature per NSI (netstack instance) (993-0311)      |
| LIC-V400-AS-NTFL | Keysight Vision 400 AppStack NetFlow/IxFlow feature per NSI (netstack instance) (993-0305)                                       |
| SUB-V400-AS-NTFL | Keysight Vision 400 one year subscription for AppStack NetFlow/IxFlow feature per NSI (netstack instance) (993-0314)             |
| SUB-V400-AS-APTL | Keysight Vision 400 one year subscription for AppStack signature per device (993-0312)                                           |

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**Advanced Inline (V400 Only)**

|               |                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------|
| LIC-V400-INLN | Keysight Vision E400S & 400, Inline feature, per chassis (993-0306)                             |
| SUB-V400-INLN | Keysight Vision E400S and 400, one year subscription for Inline feature, per chassis (993-0353) |

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**Port Capture**

|               |                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-CAPT | Keysight Vision 400 and Vision 400XT, enables NetStack port level capture feature, one per system. Node-locked perpetual license. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|

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**SecureStack (V400 Only)**

|                  |                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-SS-INLD | Keysight Vision 400, Inline Decryption perpetual feature; Licensed with 50 Gbps bandwidth split across all ports of the Inline Decryption Netstack ; Max (2) per system (993-0309) |
| SUB-V400-SS-HCS  | Keysight Vision 400 one year subscription for Host Categorization Service feature for 50 Gbps bandwidth Inline Decryption; Max (2) per system (993-0315)                           |

| <b>TradeStack</b>                |                                                                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIC-V400-TS400                   | Keysight perpetual license for TradeStack FPGA based Market Data Analytics. Package enables DTSP market data feed decoder use within TradeStack on Vision 400 and enables the FPGA based market data analytics. (993-0383)         |
| LIC-V400-TS400-LTNCY             | Keysight perpetual license for TradeStack Latency Analytics for use on Vision 400 (993-0384)                                                                                                                                       |
| SUB-V400-TS400                   | Keysight, one (1) year subscription for TradeStack FPGA based Market Data Analytics. Package enables DTSP market data feed decoder use within TradeStack on Vision 400 and enables the FPGA based market data analytics (993-0379) |
| SUB-V400-TS400-LTNCY             | Keysight, one (1) year subscription for TradeStack Latency Analytics for use on Vision 400 (993-0380)                                                                                                                              |
| <b>MobileStack (V400XT Only)</b> |                                                                                                                                                                                                                                    |
| LIC-V400-GTP5GC                  | Keysight Vision 400, Floating (worldwide) perpetual license - MobileStack 4G/5G GTP control plane correlation. Max 1 per Vision 400. Supported on Vision 400XT Only (993-0367)                                                     |
| LIC-V400-MS2C                    | Keysight Vision 400, Floating (worldwide) perpetual license - MobileStack 4G/5G GTP user plane correlation, 200G of GTP-U. Max (2) per Vision 400 (993-0368)                                                                       |

1. **Note:** PacketStack PLUS for Finance is only compatible with TradeStack, and cannot be purchased for use with PacketStack
2. **Note:** TradeStack requires the enablement of PacketStack PLUS for Finance as a pre-requisite for use.

## Acessories Vision 400 and Vision 400XT

| <b>Part Number</b> | <b>Description</b>                                          |
|--------------------|-------------------------------------------------------------|
| MV400-ACPS         | Keysight Vision 400 & E400S, (1) AC power supply (991-0253) |
| MV400-DCPS         | Keysight Vision 400 & E400S, (1) DC power supply (991-0254) |
| MV400-FAN          | Keysight Vision 400 & E400S, (1) Fan module (991-0255)      |

# Support

Keysight's Visibility industry-best products are backed by our industry-leading expertise. Our comprehensive product support does more than ensure uptime – it ensures a competitive edge. The Ixia support team partners with customers to:

- Avoid downtime and keep schedules on track
- Implement according to industry specifications
- Develop best practices to meet individual needs and objectives
- Maximize efficiency and reduce operating expenses
- Protect and maximize investments in test and visibility

In addition to above, Keysight customers registering for the secure area and access to the Support Site will also be able to view and download our product Security Advisories.

[Access Keysight Visibility Support](#)

## About Keysight Visibility

### Connect and secure the World with Dynamic Network Intelligence

The need for always-on networks is pervasive, and expectations are high when it comes to keeping them connected and secure. As technologies advance, edge computing, cloud environments, sophisticated security threats, increasing bandwidth requirements, and demanding compliance regulations make it challenging to extract actionable insight from your network.

Keysight can help. Customers rely on our solutions to deliver rich data about network traffic, applications, and users across any networking environment. This deep insight is what we call dynamic network intelligence. It helps you continuously innovate, meet aggressive service level agreements, and keep applications running smoothly and securely.

[Learn more about Keysight Visibility Solutions](#)



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at [www.keysight.com](http://www.keysight.com).

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