

PRELIMINARY DATASHEET

ONE355x

Access router family for medium and large offices with hundreds of employees



Powerful Routing Engine

The ONE355x are based on the powerful Ekinops OneOS6 software with routing performances service providers can rely on to define precise customer SLAs. Performances are optimized for use with services like QoS, NAT, network visibility (TIC), IPSec, VPN, firewall, and a large sizing capable of routing 1.5M concurrent sessions (3M flows). As the engine is software based, it is also very evolutive and adaptive, which enables a long ownership of the device, lowering the TCO.

Security from the ground up

At Ekinops, Security starts at the lowest level: The hardware. The Ekinops ONE355x are manufactured in Ekinops European factory in Belgium, the secure boot certificate hierarchy is fully controlled by Ekinops. The Software stack is completely under Ekinops control and systematic monitoring of CVE combined with regular updates and customer supports are the keys to getting the best level of security.

- Based on the **flexible** Ekinops OneOS6 **fully software based** engine
- **Manageable** thanks to industry standard CLI, TR69 and NETCONF/YANG interfaces
- **Secure** (Hardware made in Europe, fully sovereign software stack, trusted secure hierarchy, trusted Ekinops CA or own certificates installed in Ekinops factory)
- **Reliable** (optional cellular backup)
- **Evolutive** (Support containers, smooth integration into SDWAN/SASE, based on open standards)
- **Ecodesign** (Long hardware lifetime & software maintenance windows, low power consumption, integrated energy meter, wireless electric power off, conscious selection of materials, eco packaging)



About Ekinops

Ekinops is a European leader in optical networking and secured connectivity solutions for service providers, enterprises and public organizations around the world.

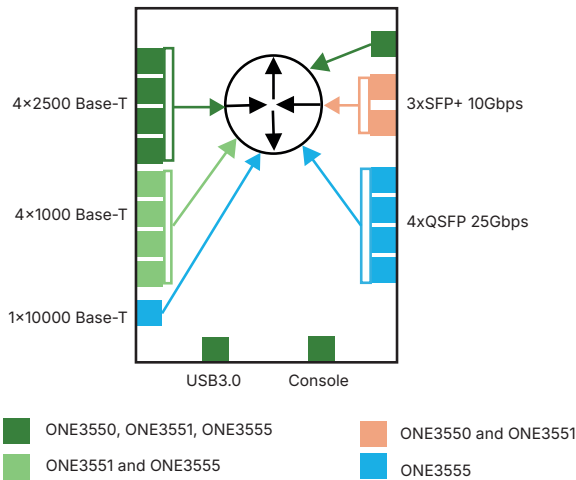
Ekinops designs, develops and manufactures high-performance solutions with cutting-edge software used to deliver high-bandwidth connectivity and managed services in over 70 countries worldwide.

Ekinops leads in the areas of:

- Advanced coherent optical networking for all metropolitan, regional, long-distance and datacenter interconnection applications
- Secured connectivity solutions for enterprises, from voice and data routing devices to Secure Access Service Edge (SASE) capabilities, including ZTNA (Zero-Trust Network Access), SD-WAN, and SSE.

Ekinops operates globally and is listed on Euronext Paris (FR0011466069 - EKI).

Technical Features



General

	RAM	SFP Slots	UTP Ports
ONE3550	8 GB	3x SFP+ 10G	4x2.5G
ONE3551	8 GB	3x SFP+ 10G	4x1G + 4x2.5G
ONE3555	16 GB	4x QSFP 25G 1x SFP+ 10G	4x1G + 4x2.5G + 1x10G

- USB 3.0 port
- RS232 – RJ-45 port

Performance and Sizing

- 1.5M NAT sessions
- 8GB RAM (16GB for ONE3555)

IP Addressing & Routing

- IPv4 and IPv6
- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, application pass-through
- DHCP client, server, relay. IP helper addresses
- DNS proxy. DNS server update protocol: DynDNS
- Routing protocols: RIP v1/v2, OSPF v2, BGP v4
- Multicast routing: PIM-SM and IGMP v2/v3
- Policy-based routing
- VRRP, VRF
- Load balancing

IP Quality of Service

- IP Classification and priority (DiffServ)
- Class-Based Queuing (CBQ), Class-Based Weighted Fair Queuing (CB-WFQ)
- Low latency queuing, fragmentation and interleaving
- Policing, shaping and remarking
- RED, WRED, ECN
- QoS measurement probe
- Traffic identification with Netflow report

Security

- Supercap powered RTC for certificate date validation
- Standard and extended access lists
- Secure certificate storage in "Trusted Platform Module (TPM 2.0) chip"
- Zone Based Firewall (ZBF) *
- Session monitoring and limiting
- User authentication locally, via RADIUS and TACACS+
- Secure boot, optional TPM
- DDoS protection

IP VPNs

- IPsec, GRE, IPsec, L2TPv2, L2TPv3* with AES, DES, 3DES encryption and SHA-1, SHA-2 and MD5 hashing
- IKEv1 & IKEv2 with pre-shared keys & certificates
- Dynamic Virtual Tunnel Interfaces (DVTI) *

Bridging and VLANs

- Bridging & Integrated Routing and Bridging (IRB)
- STP, RSTP, MSTP
- VLAN tagging and un-tagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, ToS/CoS and CoS/ToS mapping
- Ethernet OAM
- 802.1x authentication

Management

- Industry standard Command Line Interface (CLI)
- NETCONF server compatible v1.0/v1.1
- TR-069 provisioning
- SNMP V1/V2C/V3
- FTP/TFTP, SFTP, SCP upload/download configuration and binaries
- Traceroute, ping
- Powerful event manager, logging, syslog
- Syslog client

Optional Features

- Compose SD-WAN Xpress *
- Session Border Controller (SBC) *

Dimensional and Environmental

- Desktop, wall mountable, rack mount
- W x H x D: 300 × 270 × 44 mm (11.81 × 10.63 × 1.73 in)
- Weight: 3.0 kg (6.6 lb)
- Operating temperature: 0 - 40°C
- Humidity: 5 - 90% non condensing
- Fanless: Maintenance free, silent, reduced power consumption

Power Supply

- External adapter 12V – 3A/5A (version dependent)
- Voltage range: 110 - 230 V AC – 50/60 Hz
- Power consumption: Standby TBC - Max 60W

* Subject to a license

** Contact product management for availability

*** Contact product management for other frequencies support