ONEACCESS

ekinops
Empowering Networks

ONE2515

Gigabit Cloud Services Gateway & Multi-Service Access Router

OneOS6

With industry-leading hardware scalability and software flexibility, OneAccess Networks is enabling the next generation of advanced services for the small - medium business (SMB) and enterprise with the ONE2515 multi-service router and integrated gateway. The ONE2515 enables high bandwidth delivery and high availability services to the SMB and enterprise.

The ONE2515 provides up to 1 Gbps routing performance (with services turned on) combined to an embedded powerful ISDN voice gateway to aggregate up to 4 PRI ports. It offers a range of software feature options including ONeSBC and application performance management. Offering the highest level of feature integration, customers can realize a significant Total Cost of Ownership advantage through both CAPEX and OPEX savings while continuing to meet the evolving communication needs of the SMB and enterprise.

- Converged solution for Voice and Data services
- Industry-standard CLI, SNMP, TR-069 and NETCONF
- Certified Microsoft Teams Direct Routing
- 1 Gbps routing performance
- Voice SIP Gateway
- Software options:
  . ONeSBC
  . Application monitoring
  . Application control
  . SD-WAN

The ONE2515 is a fully managed solution with advanced provisioning and network management tools including Command Line Interface (CLI) and TR-069 auto-provisioning. The ONE2515 running OneOS6 provides a complete NETCONF implementation to also support Network Function Virtualization (NFV).

Efficient, low-cost deployment is realized using auto discovery and configuration for simplified installation and maintenance. Once installed and connected to the network the ONE2515 can automatically retrieve its required configuration for fast, low-touch service provisioning.

SD-WAN Ready

Ekinops SD-WAN extends from the OneOS6 features and enhances them to deliver a feature-rich and full fledge SD-WAN solution. Additional functionalities embedded in the 2 variants of SD-WAN license (Xpress and Prime) enable Service Providers to transform their existing business VPN, delivering highest value from the same infrastructure. SD-WAN Xpress is a perfect fit for SMBs and companies in various verticals such as Retail, which, above all, look for a cost effective solution enabling them to quickly adopt digital transformation and leverage SaaS services (O365, SalesForce, etc.). SD-WAN Prime is tailor made for larger organizations where business applications are mission-critical and require real time optimization to grant the expected Quality of Experience.

Interfaces

- 2x GigE WAN
- 8 Port L2/L3 GigE Switch
- 4 E1/T1 PRI
- Optionally up to 24 FXS & 2 FXO ports
- Optional 4G/LTE

Optional Software Features

- ONeSBC- Enterprise Session Border Control
- Voice High Availability (H.A.)
- Application-Aware Traffic Steering
- IPsec Booster features
- Advanced Connectivity and Security

Technical Features

Gigabit Ethernet Interfaces

- 2 ports 10/100/1000 configurable UTP
- 2 ports 10/100/1000 configurable SFP
- 8 ports 10/100/1000 BASE-T layer 2/3 configurable Ethernet switch

ISDN E1/T1 Interfaces

- 4 ports or 2 ports upgradable to 4 with software license key*
- 60 concurrent calls upgradable to 120 with 4 available ports
- PRI protocols: ETSI, VN4, VN6, NI-2, DMS-100, 5ESS
- Framing: Auto-detect, MF, EMF, SF, ESF
- Designed for interconnection with ISDN PBX
- Clock Source: 5 ppm High Precision

Analog Interfaces (factory option)

- Up to 24 FXS/2 FXO loop/ground start; RJ-11 connector
- FXS Line Voltage Drop
- Direct call (automatic call after off-hook)
- Fully configurable ringing & tones
- FSK/DTMF caller-id presentation on POTS terminal interface
- FXO Loop-back & ground-start & far end disconnect supervision
- Line Hunting, Local port switching

Clocking Synchronization Interface (factory option)

- 2 E/S SYNC ports

Wireless Radio Interface (factory option)

- Tri Band LTE (800, 900, 1800, 2100 and 2600 MHz) with MIMO 2 x 2, Peak Rate Downlink/Uplink 100/50 Mbps depending on carrier network support (4G versions only)
- UMTS/HSPA+
- Edge/GPRS and GSM
- 2 SMA connectors for mobile antenna
- Dual SIM card

Voice and Data Performance

- 600 concurrents combined with 200 Mbps bi-directional throughput
- Upgradable to 500 Mbps* and 1Gbps*

ONeSBC (Session Border Controller)*

- SIP trunking with demarcation – SIP Connect 2.0
- Hosted PBX solution
- Certified Microsoft Teams Direct Routing
- SIP normalization
- SIP v2.0 over UDP/TCP/TLS and RTP/SRTP
- Codec negotiation with transparency: G.726, G.722, AMR-WB, Opus, Silk, Ilbc, GSM, Speex, H.262, H.263, H.264, H.265

Voice Features

- SIP v2 protocol: UDP/TCP/TLS and RTP/SRTP (SDES)
- SIP registration: basic & pacing
- SIP IPv4 & SIP Iv6 - Dual stack
- SIP multi-trunks
- Geo-redundancy with DNS-A/SRV and NAPTR
- Flexible Call Routing: Round-Robing, DID r,anges, host names
- Line Hunting, Insertion & suppression of digits
- Echo cancellation: G.165/168 compliant, non-linear processing
- Voice compression: G.711 (a/µ law), G.729a, G.729ab, G.722, SILK, CES, AMR-WB (G.722.2) **
- DTMF/Tone detection and generation
- Silence suppression and comfort noise generation
- Static or adaptive Jitter buffer
- Fax and Modem over IP
- MOS scoring evaluation
- VQM (Voice Quality Monitoring)
- SIP Test Call: Generator & Absorber

Security

- SIP Anti-Flooding Mechanism
- Topology hiding
- SIP message filtering
- Address translation
- SIP Lawful Interception (outbound proxy)
- Firewall with stateful packet inspection
- Standard and extended access lists
- Session monitoring and limiting
- Configurable timers per port and application
- All firewall log messages - buffered, viewed or sent to a syslog server

IP Quality of Service

- DiffServ IP Classification and priority
- Class-Based Queuing (CBQ), CB-WFQ on LAN/WAN interfaces
- Low Latency Queuing, fragmentation and interleaving
- Policing and remarking
- RED, WRED, ECN

Bridging and VLANs

- Bridging & Integrated Routing and Bridging (IRB)
- VLAN tagging and un-tagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, TOS/COS and COS/TOS mapping

marketing@ekinops.com | www.ekinops.com

Technical Features

IP Routing

- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, ALGs
- DHCP client, server, relay, DNS proxy
- Routing protocols: RIP v1/v2, OSPF v2, BGP v4
- Multicast Routing: PIM-SM and IGMP v2/v3
- Policy-Based Routing
- VRRP, VRF
- Server load balancing

IPv6

- Concurrent IPv4 and IPv6 support
- Manual v6-in-v4 tunneling

PPP

- PPP/Ethernet (PPPoE)
- Automatic IP address assignment
- MLPPP bonding, with fragmentation and interleaving
- PAP/CHAP authentication
- IPCP subnet mask
- MAC address based authentication

Auto-Provisioning

- TR-069
- NETCONF
- Broadsoft DMS
- Auto-configuration
- Embedded Event Manager (EEM v2)

Management

- Command Line Interface (CLI)
- Telnet, SSH, HTTPS
- Web-based configurator for LAN and WLAN
- SNMP V1/V2C/V3
- Flow capture and decoding
- Configurable end user web GUI
- Support of user privileges
- FTP/TFTP upload/download configuration and binaries
- QoS measurement probe
- Traceroute, ping, extended ping
- User authentication via RADIUS or TACACS+
- RADIUS accounting
- Global statistics screens (console, web-based). Event and trace buffering
- Syslog client
- Flow capture and decoding

Regulatory

- FCC, CE, ACMA, UL/CSA

Dimensions

- Desktop, wall mountable, rack mountable for 19" and ETSI racks
- Operating temperature: 0-45°C
- Humidity: 5-90% non condensing
- W x H x D: 440 x 44 x 240 mm (17.32 x 1.73 x 9.45 in)
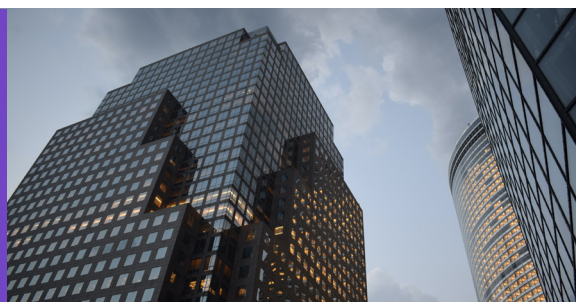- Weight: 2.9 kg (6.39 lb)

Power Supply

- Dual external power supply for redundancy
- Power supply: 12V - 3A or 5A depending on hardware option
- Rocker switch
- Push reset/erase button

*   *Subject to a license*
**   *Please contact Ekinops Marketing*

ONEACCESS

About   ✳ EKINOPS

Ekinops is a leading provider of open and fully interoperable Layer 1, 2 and 3 solutions to service providers around the world. Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for both high-speed, high-capacity optical transport networks and virtualization-enabled managed enterprise services

Our product portfolio consists of three highly complementary product and service sets: Ekinops360, OneAccess and Compose.

- Ekinops360 provides optical transport solutions for metro, regional and long-distance networks with WDM for high-capacity point-to-point, ring and optical mesh architectures, and OTN for improved bandwidth utilization and efficient multi-service aggregation.

- OneAccess offers a wide choice of physical and virtualized deployment options for Layer 2 and Layer 3 access network functions.

- Compose supports service providers in making their networks software-defined with a variety of software management tools and services, including the scalable SD-WAN Xpress.

As service providers embrace SDN and NFV deployment models, Ekinops enables future-proofed deployment today, enabling operators to seamlessly migrate to an open, virtualized delivery model at a time of their choosing.

A global organization, Ekinops (EKI) - a public company traded on the Euronext Paris exchange - operates in 4 continents.

EKINOPS360
Dynamic Optical Transport

COMPOSE

ONEACCESS