

The Antikor Dual Layer (Layer2 & Layer3) SD-WAN EPA-TN-K64 Series is a Turkish national product that provides secure virtual switching at the Layer2 level in Large Enterprise networks with advanced network and security features. Thanks to its bonding feature, it transfers different types of internet (xDSL, 4.5G, metro, asymmetric fiber, etc.) to the center simultaneously. It can perform packet filtering (Layer2 Firewall) and QoS - Active Bandwidth Management in traffic.

Layer2 Communication over WAN



By extending our local network over our internet connections, we create a closed network by performing secure virtual switching (virtual switching) at the Layer2 level. It works as an uplink between switches. In short, the broadcast domains of both networks are merged.

Multiple VLAN transfer in WAN



In the Antikor Dual Layer SD-WAN solution, independent isolated Virtual Switches can be created, and they are transferred encrypted with the assigned VLANs on the other side. It allows for MAC-IP matching control.

Switching and Compatibility



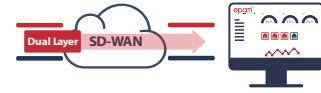
Both Virtual Ports and Physical Ports have the IEEE 802.1Q VLAN feature (Untagged Port Assignment, Tagged Port Assignment and Hybrid Port Assignment). It has High Availability Cluster (Active-Passive Cluster) and Fail-over features.

Central Management and Logging



Through the Central Management System and monitoring, bulk settings can be obtained. It sends logs to all SIEM solutions in RAW, CEF, EWMM, GELF, JSON, WELF, CIM formats. It has LACP, LLDP, and Netflow Export services.





Product Specifications

Operating Modes

- Traffic Capturing on:
 - OSI Layer 2 - Ethernet
- Tunneling over:
 - OSI Layer 3 - IPv4 & IPv6
 - OSI Layer 3 - Working Behind NAT

Virtual Switch Features

- Assigning Layer2 Tunnels as Virtual Ports
- IPsec Encryption for Layer2 Tunnels
- Physical Port Assignment
- IEEE 802.1Q VLAN for both Virtual and Physical Ports:
 - Untag Port Assignment
 - Tagged Port Assignment
 - Hybrid Port Assignment

- VLAN Enabled MAC Table
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- Spanning Tree Protocol
- Rapid Spanning Tree Protocol
- Link Layer Discovery Protocol
- NetFlow Export Service
- MAC Learning

Ethernet Interface Specifications

- 4094 IEEE 802.1Q VLANs for each port
- IEEE 802.3ad LACP
- Virtual Ethernet Interface
 - Loopback
 - VLAN subinterface

IPsec VPN

- Encryption: DES, 3DES, AES, BLOWFISH, CAST128, CAMILIA
- Authentication: MD5, SHA1, SHA256, SHA384, SHA512, 3DES, DES
- Wildcard ID Support
- NAT Traversal Support
- Assigning different IPsec Profiles for each Layer2 Tunnel

Management Interface Features

- HTML5 Responsive Web Interface
 - SSL Certificate based authentication
 - Customizing the service port
- Out of Band Management Plane
- SSH Console
- Physical Console (Monitor, Keyboard)

System Performance

MAC Table Size	65.536
Layer2 Throughput (Gbps)	6 Gbps
Firewall Throughput (Gbps)	5 Gbps
IPsec Throughput (Gbps)	3 Gbps

Licensing

Number of Layer2 Tunnels	Unlimited
Number of Phys. Ports can be Assigned to a Virtual Switch	Unlimited
Number of Tunnels can be Assigned to a Virtual Switch	Unlimited
Number of VLANs for Layer2 Tunnels	Unlimited
High Availability (HA) - Cluster Support	Active-Passive
Number of Addressable CPU Threads	16
Number of IPsec VPN Tunnels	20
Number of Virtual Switches	20
IEEE 802.3ad LACP Support on Virtual Switches	Yes
WAN Bonding	Yes
MTU Adaptation for WAN	Yes

Services

- Live Dashboard
- Automated Update System
- WAN Bonding (Optional)
- SNMP v2/v3 Service
- Layer2 Packet Filtering on Tunneled Traffic (Optional)
- QoS - Quality of Service on Tunneled Traffic (Optional)
- Port Grouping
- Syslog Service (RAW, CEF, EWMM, GELF, JSON, WELF, CIM)
- MAC Learning
- Authorization Management
- Isolated Virtual Switching
- NetFlow Export Service
- Incident Notification Service
 - SMS, Email, Browser Notification

Routing

- IPv4 / IPv6 Static Routing
- OSPF(Open Shortest Path First), BGP(Border Gateway) Protocols

Hardware Requirements

- Min 16 Core and later Processor
- Min 16 GB Ram
- Min 240 GB Solid State Disc
- Min 4 x 1G/10G Ethernet Card

* Performance tests are performed with the following hardware:
 - Intel Xeon D-2146NT Processor, Dual Channel 16 GB DDR4 2400MHz ECC RAM
 - 2 x Intel x557 MultiQueue Ethernet Card

** Note: All performance values may vary depending on environmental conditions, system configuration and equipment.

eP-FR-79 Rev.02 / Release date: 01.04.2019 / Rev.date: 02.05.2021

