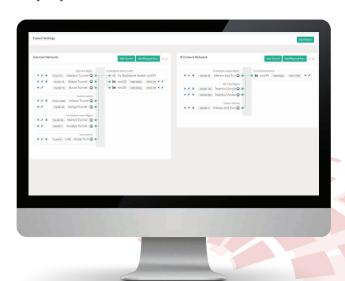


EPA-TN-M1 SeriesDual Layer SD-WAN and Bonding



The Antikor Dual Layer (Layer2 & Layer3) SD-WAN EPA-TN-M1 Series is a Turkish national product that provides secure virtual switching at the Layer2 level in Data Center Grade 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.

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.

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.

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.





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EPA-TN-M1 Series

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 \	/PN

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	1.000.000
	Layer2 Throughput (Gbps)	16 Gbps
Ī	Firewall Throughput (Gbps)	14 Gbps
	IPsec Throughput (Gbps)	10 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 Act	ive-Passive
Ž.	Number of Addressable CPU Threads	32
Ì	Number of IPsec VPN Tunnels	32
	Number of Virtual Switches	32
7	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)		
	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	

Routing

IPv4 / IPv6 Static Routing

OSPF(Open Shortest Path First), BGP(Border Gateway) Protocols

Hardware Requirements

Min 32 Core and later Processor

Min 32 GB Ram

Min 480 GB Solid State Disc

Min 4 x 1G/10G Ethernet Card

- * Performance tests are performed with the following hardware:
- Intel Xeon D-2183IT @2.20GHz Processor, Dual Channel 32 GB DDR4 2400MHz ECC RAM
- 4 x Intel X722 MultiQueue Ethernet Card, 9 x Intel i350 MultiQueue Ethernet Card
- ** Note: All performance values may vary depending on environmental condiditions, system configuration and equipment.

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