

Angora Networks

Verge Datacenter Switches

Angora Data Center 1000 Series is a very high speed and density gigabit switch family with up to 6(six) 100Gigabit Ethernet Interfaces. It supports 48 ports 1/10/25 connectivity to provide enough capacity for data center applications such as big data, cloud architectures and edge routing for core layer.

With high bandwidth capacity up to 3.6 Tbps, 1000 series provide enough performance for Infrastructure as a Service (IaaS) platforms for high performance server connectivity, ethernet convergence, IP based storage, real time traffic ,such as video and virtualization environments with ultra low latency switching requirements, all in a single and compact one rack unit solution.

Data Center from Server to Edge

Angora Data Center switches support all your DC networking technologies. VXLAN, NVGRE and possible VXLAN-GPE functions are supported with Marvell based and Intel powered hardware architecture. Its high level Layer 3 functions makes Angora switches also a perfect fit for DC edge routing, with VPLS, EVPN, advanced routing and MPLS support.

Programmability

As the networks is now more automated, any device that will be part of large data center infrastructure must have required features to integrate with any automation and orchestration platform. 1000 Series, supports all your programmability needs with Netconf and Ansible support, providing, easy integration options with industry leading orchestration tools.

Layer 2 Features

- 802.1D Spanning Tree Protocol
- 802.1 w RapidSpanning Tree
- 802.1 s Multiple Spanning Tree
- RPVST+VLAN's with QinQ
- 802.1Q VLAN (4000 active, port based, translation, mapping)
- Trunking support
- Private VLAN/Guest VLAN/Voice VLAN)
- 802.1 AB LLDP, LLDP-MED
- 802.3x Flow control
- 802.1x Authentication (User/MAC/Web)
- 802.3ad Link aggregation group support (16 port)
- Multi-chassis Link aggregation group support
- CFM 802.1agY.1731
- VxLAN support with EVPN
- TRILL
- QCN, ETS, PFC
- Ultra Low Latency < 100ns.
- 256K Mac Address
- 9216 byte Jumbo Frame

MPLS/MPLS-TP Features

- MPLS Architecture Suppor
- LDP, RSVP support
- RSVP Traffic Engineering support
- RSVP FRR with 1:1 and 1:n support
- Pseudowire setup and maintenance using LDP
- Pseudowire setup and maintenance using BGP
- EVPN support over VPLS
- MPLS L3VPN for IPv4/IPv6
- Differentiated Services over MPLS
- BFD for Pseudowire VCCV
- OAM for MPLs based transport networks, pro-active connectivity check
- RDI
- MPLS TP
- Transport Profile Support
- MVPN Support

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Layer 3 Features

- Static IPv4/Ipv6
- OSPF v2/v3, IS-IS (v4/v6), MP-BGP, RIP v1/v2, PBR
- RIPng BGP v6
- Multi-path ECMP
- VRF Lite –IPv4
- BFD for IPv4, IPv6, Protocol support for OSPF
- BGP in Global and VRF space
- IGMP v1/v2/v3
- IGMP Snooping v1/v2/v3
- MLD v1/v2
- MSDP
- PIM-SM
- PIM-SSM
- PIM-DM (IPv4/IPv6)
- VRRP
- 8000 multicast group
- 32K route table

Management, Security and Qos Features

- Access Control List L2/L3/L4 (8192)
- RADIUS & TACACS+ support
- Role based access control
- Modular & Hierarchical QOS for Policing, Marking and Shaping
- L2/L3/L4 Classification
- DSCP/CoS/ToS, 16 hardware queue
- Strict priority round robin, waited round robin, fair queue
- Rate limitting, traffic shaping
- Flexible flow classification and action rule-set
- NETCONF support
- Ansible Integration
- Sflow v5 support
- DHCP Relay/Client/Server
- DHCP Option 12, 66, 67, 82, 150
- Syslog
- SNMP Support v1/v2c/v3, RMON
- Industry standard CLI
- DoS Protection, Dynamic ARP Inspection, DHCP Snooping, IP Source Guard, STP Loop Protection
- Port mirroring/Remote port mirroring
- Traceroute, SSH v1/v2, HTTP/HTTPS, TelNet, TFTP, SFTP, NTP, xModem,

Feature	Description
Chipset	Marvell
Flash	16 GB
RAM	8 GB
Maximum Bandwidth	3.2 Tbps
Fans	4+1 hot swap
PSU	650W hot swap
Case	440x470x44mm 19 in. 1U
1/10/25GbE GbE ports	48
40/100 GbE ports	4/6
Other ports	Console, OOB, USB 2.0
Stacking	Maximum bandwidth 400Gbps, 4 stack members
Supported Interfaces	1000Base-X,1000Base-TX, 1000BaseSX,1000BaseLX,10GBaseSR, 10GBaseLR,10GBaseER, 10GBaseZR,40GBaseSR4,40GBaseLR4

Ordering Information

ANW-2520-48SFP10G-6SFP100G	48 unpopulated SFP+, 6 unpopulated 100G QSFP28, 4 AC PSU, Angora IP license
ANW-2520-48SFP10G-4SFP40G	48 unpopulated SFP+, 4 unpopulated 40G QSFP+, 4 AC PSU, Angora IP license

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