

Product Highlights

Density and Performance

- 7280CR2M: 30x 100GbE
- 7280SRAM: 48 x 1/10GbE and 6x 100GbE
- Wire speed L2 and L3 forwarding
- Up to 6Tbps of wire speed performance with 12GB of buffer

Wire-speed Encryption

- IEEE 802.1AE MACsec encryption
- Wire speed encryption on all 100GE ports
- Optimized for secure DCI and site-site encryption in a compact footprint

Data Center Optimized Design

- Ultra-deep packet buffers
- 7280CR2M: 12GB of buffer
- 7280SRAM: 4GB of buffer
- Virtual Output Queues per port to eliminate head of line blocking
- Redundant & hot-swap power and fans
- Front-to-rear or rear-to-front cooling
- Tool less rails for simple installation

Virtualization and Provisioning

- CloudVision
- VXLAN for next generation DC
- LANZ for microburst detection
- DANZ Advanced Mirroring & TAP Aggregation for improved visibility
- VM Tracer
- Zero Touch Provisioning (ZTP)
- Advanced Event Monitoring
- Accelerated sFlow (RFC3176)

Cloud Networking Ready

- 768K MAC Addresses
- 768K IPv4 and IPv6 Host Routes
- Over 1.3M IPv4 Routes
- Arista AlgoMatch™ (7280SRAM)

Resilient Control Plane

- High Performance x86 CPU
- 32GB System memory
- 4GB Flash
- User applications can run in a VM

Arista Extensible Operating System

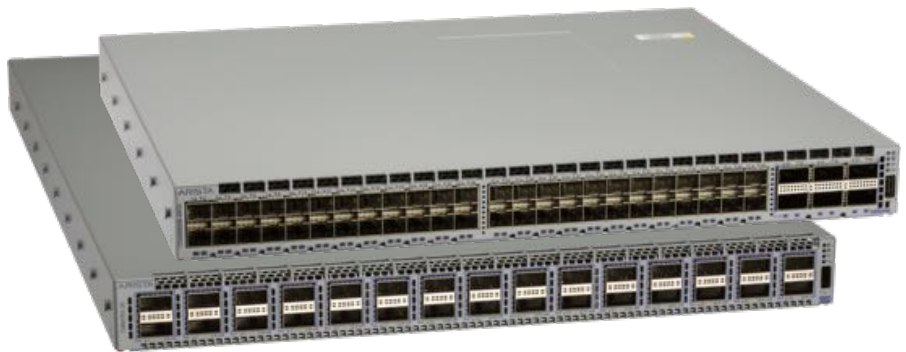
- Single binary image
- Fine-grained truly modular network OS
- Stateful Fault Containment (SFC)
- Stateful Fault Repair (SFR)
- Full access to Linux shell and tools
- Extensible platform - bash, python, C++ , GO, OpenConfig

Overview

The Arista 7280R and 7280R2 are part of the 7280R series of fixed systems, which are key components of the Arista 7000 Series portfolio of data center switches. The 7280R MACsec systems are high performance compact routing platforms with built-in wire speed MACsec encryption that is purpose built for the highest performance environments, and to meet the needs of large scale data centers. They deliver scalable L2 and L3 resources and high density with advanced features for encryption, network monitoring, precision timing and network virtualization to deliver scalable and deterministic network performance while simplifying designs and reducing Opex. The built-in MACsec capability removes the need for external encryption devices and provides security against intrusion, passive wire tapping and other playback attacks. MACsec encryption meets regulatory compliance requirements and provides data protection without loss of performance.

The Arista MACsec solution utilizes proven encryption technology to protect traffic for simple, reliable and scalable data center interconnect and for securing links between tiers in leaf and spine data center designs. MACsec offers security in the data link layer and is transparent and non-disruptive to L2/L3 traffic. Flexible 100GbE QSFP pluggable optics ensures a broad choice of cost effective connections.

The 7280CR2M and 7280SRAM can be deployed in a wide range of open networking solutions including secure Data Center Interconnect (DCI), large scale layer 2 and layer 3 cloud designs, overlay networks and virtualized or traditional enterprise data center networks. Deep packet buffers and large routing tables allow for internet peering applications. The broad range of interfaces and density choice provides deployment flexibility.



Arista 7280R MACsec systems

Arista EOS

All Arista products including the 7280R runs the same Arista EOS software, binary image simplifying network administration with a single standard across all switches. Arista EOS is a modular switch operating system with a unique state sharing architecture that cleanly separates switch state from protocol processing and application logic. Built on top of a standard Linux kernel, all EOS processes run in their own protected memory space and exchange state through an in-memory database. This multi-process state sharing architecture provides the foundation for in-service-software updates and self-healing resiliency together with stateful switchover without the loss of data plane forwarding.

Arista EOS enables advanced monitoring and automation capabilities such as Zero Touch Provisioning, LANZ, VM Tracer and Linux based tools to be run natively on the switch.

Model Overview

The Arista 7280R MACSec systems come in two different configurations: The 7280SRAM-48C6 and the 7280CR2M-30. Each model delivers high performance, wire speed MACsec encryption combined with feature rich layer 2 and layer 3 forwarding.

The **7280SRAM-48C6** delivers large packet buffers, scale and availability with built-in wire-speed MACsec encryption on the 100G ports and support for AlgoMatch.



Arista 7280SRAM-48C6

7280SRAM-48C6: 48 port SFP+ and 6 ports QSFP100

- 48 wire speed 1/10G SFP+ ports
- Six 100G QSFP ports allow choice of 6 x 100GbE, with or without MACsec and 6x40GbE without MACsec
- 2.16Tbps of wire speed performance with 4GB of buffer
- Support for AlgoMatch and Accelerated sFlow

The **7280CR2M-30** delivers large packet buffers, scale and availability with built-in wire-speed MACsec encryption on all 30 x 100GE ports in a high density compact 1RU form factor.



Arista 7280CR2M-30

7280CR2M-30: 30 ports QSFP100

- 30x 100G QSFP ports allow choice of 30 x 100GbE, with or without MACsec. 30 x 40GbE without MACsec
- 6Tbps of wire speed performance with 12GB of buffer
- Support for Accelerated sFlow

7280R High Availability

The Arista 7280R switches are designed for continuous operations with system wide monitoring of both hardware and software components, simple serviceability and provisioning to prevent single points of failure. Key high availability features include:

- 1+1 hot-swappable power supplies and four hot-swap fans provide dynamic temperature control combined with N+1 redundancy
- Color coded PSU's and fans that deliver platinum level power efficiency
- Live software patching
- Self healing software with Stateful Fault Repair (SFR)
- Smart System Upgrade (SSU) and Accelerated Software Update (ASU)



7280SRAM-48C6 Rear View: Rear to Front and Front to Rear

7280SRAM-48C6 hot swap fans

7280SRAM-48C6 hot swap power supplies

7280CR2M-30 Rear View: Front to Rear

7280CR2M-30 hot swap fans

7280CR2M-30 hot swap power supplies

7280R Deterministic Network Performance

The Arista 7280R Series uses a deep buffer virtual output queue (VOQ) architecture that eliminates head-of-line (HOL) blocking and virtually eliminates packet drops even in the most congested network scenarios. An advanced traffic scheduler fairly allocates bandwidth between all virtual output queues while accurately following queue disciplines including weighted fair queueing, fixed priority, or hybrid schemes. As a result, the Arista 7280 can handle the most demanding data center requirements with ease, including mixed traffic loads of real-time, multicast, and storage traffic while still delivering low latency.

7280R Accelerated sFlow

sFlow is a powerful tool used commonly by network operators for advanced network telemetry, capacity planning, security analysis and quality of experience monitoring. All models of the 7280R Series enable sFlow utilizing the high performance CPU. Within modern high performance systems traffic sampling requires the capability to both sample and process packet rates of hundreds of millions of packets per second. With the 7280R Series Accelerated sFlow feature the sampling and processing of flow samples into sFlow datagrams is handled via a dedicated sFlow engine capable of generating up to 1.6Mpps of sFlow data, and of supporting 1:1000 sampling rates of full wire speed systems or higher rates with selective sampling based on triggers and filters. All sFlow v5 information is included in the sFlow records ensuring consistent integration with existing standard sFlow collection and analysis tools and no loss of information.

AlgoMatch™

AlgoMatch is a unique Arista innovation for modern cloud networks, combining both software and hardware to enable more flexible and scalable solutions for access control, policy based forwarding and network telemetry. By combining general purpose memory with advanced software algorithms AlgoMatch delivers higher scale, performance and efficiency with lower power and is more cost effective than traditional solutions. AlgoMatch provides a more efficient packet matching algorithm that in turn enables flow matching for access control, policy and visibility. The net benefits are a high performance policy engine with both increased functionality and scale in a cost and power efficient solution. AlgoMatch is available on the 7280RA Series of products.

- AlgoMatch enables IPv4 and IPv6 access control at the same scale
- L4 rule ranges are programmed efficiently without expansion or reduced capacity
- Multiple actions can be performed on a single packet or flow
- User defined filters allow flexible packet classification based on offsets for custom actions
- Supports rich policy with consistent semantics that would exhaust classical resources

100G Wire-speed Encryption

Industry standard IEEE 802.1AE (MAC Security standard, referred to as MACsec) capabilities provide line-rate frame encryption and authentication for all traffic. This removes the need for additional encryption devices and ensures confidentiality as well as provides anti-replay protection and therefore confidence in the integrity of encrypted traffic. MACsec is a link layer encryption technology and operates at the speed of the Ethernet ports, providing high performance without the processing overheads associated with encryption options such as IPsec.

MACsec uses a long-term key to derive session keys used for encryption utilizing the MACsec Key Agreement Protocol per IEEE 802.1X-2010. Long term keys can either be statically defined or derived via RADIUS server(s). Data is encrypted using the 128 bit or 256-bit GCM-AES-XPB block cipher suite. MACsec encryption is a EOS licensed feature and requires a license file to enable the encryption feature. License information is included in the ordering information section of this document.

CloudVision

CloudVision is a network-wide approach for workload orchestration and workflow automation as a turnkey solution for Cloud Networking. CloudVision extends the EOS publish subscribe architectural approach across the network for state, topology, monitoring and visibility. This enables enterprises to move to cloud-class automation without needing any significant internal development.

Layer 2 Features

- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree Protocol
- Rapid Per Vlan Spanning Tree (RPVST+)
- 4096 VLANs
- Q-in-Q
- 802.3ad Link Aggregation/LACP
 - 54 Ports / Channel
 - 48 groups per system
- MLAG (Multi-Chassis Link Aggregation)
 - Uses IEEE 802.3ad LACP
 - 96 ports per MLAG
- 802.1Q VLANs/Trunking
- 802.1AB Link Layer Discovery Protocol
- 802.3x Flow Control
- Jumbo Frames (9216 Bytes)
- IGMP v1/v2/v3 snooping
- Storm Control
- 802.1 AVB
- SMPTE-2059-2

Layer 3 Features

- Static Routes
- Routing Protocols: OSPF, OSPFv3, BGP, MP-BGP, IS-IS, and RIPv2
- 128-way Equal Cost Multipath Routing (ECMP)
- VRF
- Bi-Directional Forwarding Detection (BFD)
- Unicast Reverse Path Forwarding (uRPF)
- VRRP
- Virtual ARP (VARP)
- Policy Based Routing (PBR)
- Route Maps

Multicast

- IGMP v2/v3
- Protocol Independent Multicast (PIM-SM / PIM-SSM)
- PIM-Bidir
- Anycast RP (RFC 4610)
- Multicast Source Discovery Protocol (MSDP)

Advanced Monitoring and Provisioning

- Latency Analyzer and Microburst Detection (LANZ)
 - Configurable Congestion Notification (CLI, Syslog)
 - Streaming Events (GPB Encoded)
 - Capture/Mirror of congested traffic *
- Zero Touch Provisioning (ZTP)
- Advanced Mirroring
 - Port Mirroring (16 sessions)
 - Enhanced Remote Port Mirroring
 - SPAN/TAP M:N Aggregation
 - L2/3/4 Filtering
- Advanced Event Management suite (AEM)
 - CLI Scheduler
 - Event Manager
 - Event Monitor
 - Linux tools

- Integrated packet capture/analysis with TCPDump
- Restore and Configure from USB
- RFC 3176 sFlow
- Built-in SSD for logging and data capture
- IEEE 1588 PTP *

Virtualization Support

- VXLAN Bridging and Routing (VRF, MLAG)
- VM Tracer VMware Integration

Security Features

- PDP
- Service ACLs
- Ingress / Egress ACLs using L2, L3, L4 fields
- Ingress / Egress ACL Logging and Counters
- MAC ACLs *
- ACL Deny Logging
- ACL Counters
- DHCP Relay / Snooping
- MAC Security
- TACACS+
- RADIUS
- ARP trapping and rate limiting

Quality of Service (QoS) Features

- Up to 8 queues per port
- Strict priority queueing
- 802.1p based classification
- DSCP based classification and remarking
- Egress shaping / Weighted round robin (WRR)
- Policing / Shaping
- Rate limiting *
- Explicit Congestion Notification (ECN) marking
- 802.1Qbb Per-Priority Flow Control (PFC)
- 802.1Qaz Enhanced Transmission Selection (ETS) *
- Data Center Bridging Extensions (DCBX)

Network Management

- CloudVision
- Configuration rollback and commit
- 100/1000 Management Port
- RS-232 Serial Console Port
- USB Port
- SNMP v1, v2, v3
- Management over IPv6
- Telnet and SSHv2
- Syslog
- AAA
- Industry Standard CLI
- Beacon LED for system identification
- System Logging
- Environment monitoring

* Not currently supported in EOS

Extensibility

- Linux Tools
 - Bash shell access and scripting
 - RPM support
 - Custom kernel modules
- Software Defined Networking (SDN)
 - eAPI
 - OpenStack Neutron Support
- Programmatic access to system state
 - Python
 - Chef
 - Puppet
 - C++
 - eAPI
 - GO
 - OpenConfig
 - OpenStack Neutron Plug-in support
- Native KVM/QEMU support

System Scalability

- 9216 Byte Jumbo Frame Support
- 8 Priority Queues per Port
- 1152 Link Aggregation Groups (LAG)
- 32 Ports per LAG
- Virtual Output Queueing
- Distributed Scheduler
- WFQ, CIR*, ETS*, Fixed Priority

Standards Compliance

- 802.1D Bridging and Spanning Tree
- 802.1p QOS/COS
- 802.1Q VLAN Tagging
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree Protocol
- 802.1AB Link Layer Discovery Protocol
- 802.3ad Link Aggregation with LACP
- 802.3x Flow Control
- 802.3ab 1000BASE-T
- 802.3z Gigabit Ethernet
- 802.3ae 10 Gigabit Ethernet
- 802.3ba 40 Gigabit Ethernet
- 802.3ba 100 Gigabit Ethernet
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)
- RFC 2462 IPv6 Stateless Address Autoconfiguration
- RFC 2463 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
- IEEE 1588-2008 Precision Time Protocol

SNMP MIBs

- RFC 3635 EtherLike-MIB
- RFC 3418 SNMPv2-MIB
- RFC 2863 IF-MIB
- RFC 2864 IF-INVERTED-STACK-MIB
- RFC 2096 IP-FORWARD-MIB
- RFC 4363 Q-BRIDGE-MIB

- RFC 4188 BRIDGE-MIB
- RFC 2013 UDP-MIB
- RFC 2012 TCP-MIB
- RFC 2011 IP-MIB
- RFC 2790 HOST-RESOURCES-MIB
- RFC 3636 MAU-MIB
- RMON-MIB
- RMON2-MIB
- HC-RMON-MIB
- LLDP-MIB
- LLDP-EXT-DOT1-MIB
- LLDP-EXT-DOT3-MIB
- ENTITY-MIB
- ENTITY-SENSOR-MIB
- ENTITY-STATE-MIB
- ARISTA-ACL-MIB
- ARISTA-QUEUE-MIB
- RFC 4273 BGP4-MIB
- RFC 4750 OSPF-MIB
- ARISTA-CONFIG-MAN-MIB
- ARISTA-REDUNDANCY-MIB
- RFC 2787 VRRPv2MIB
- MSDP-MIB
- PIM-MIB
- IGMP-MIB
- IPMROUTE-STD-MIB
- SNMP Authentication Failure trap
- ENTITY-SENSOR-MIB support for DOM (Digital Optical Monitoring)
- User configurable custom OIDs

See EOS release notes for latest supported MIBs

| Model | 7280SRAM-48C6 | 7280CR2M-30 |
|----------------------------|--|--|
| Ports | 48 x SFP+, 6 x QSFP100 | 30x QSFP100 |
| Max 100GbE Ports | 6 | 30 |
| Max 40GbE Ports* | 6 | 30 |
| Max 10GbE Ports * | 48 | - |
| Throughput | 2.16Tbps | 6Tbps |
| Packets/Second | 720Mpps | 2.51Bpps |
| Latency | From 3.8us | From 3.8us |
| CPU | Quad-Core x86 | Quad-Core x86 |
| System Memory | 32 Gigabytes | 32 Gigabytes |
| Packet Buffer Memory | 4GB | 12GB |
| USB Ports | | 2 |
| Flash Storage Memory | | 4GB |
| SSD Storage | | Yes |
| 100/1000 Mgmt Ports | | 1 |
| RS-232 Serial Ports | | 1 (RJ-45) |
| Hot-swap Power | 2 (1+1 redundant) | |
| Hot-swap Fans | 4 (N+1 redundant) | 5 (N+1 redundant) |
| Reversible Airflow | Yes | No |
| Rack Units | 1U | 1U |
| Size (WxHxD) | 19 x 1.75 x 16" (48.3 x 4.4 x 40.6cm) | 17.3 x 1.71 x 26.4" (48.3 x 4.3 x 67cm) |
| Typical** / Max Power Draw | 382W / 403W | 1300W / 1400W |
| Weight | 20.4lbs (9.25kg) | 34 lbs (15.4kg) |
| NEBS | Yes | No |
| Power Supplies | 500W AC, 500W DC | 1600W AC |
| AlgoMatch | Yes | No |
| Accelerated sFlow | Yes | Yes |
| EOS Feature License | LIC-FIX-2 | LIC-FIX-4 |
| Minimum EOS | 4.20.1 | 4.21.0 |

Supported Optics and Cables

| Interface Type | SFP+ Ports |
|---------------------|------------------------------------|
| 10GBASE-CR | SFP+ to SFP+: 0.5m-5m |
| 10GBASE-AOC | SFP+ to SFP+: 3m-30m |
| 10GBASE-SRL | 100m OM3 / 150m OM4 duplex MMF |
| 10GBASE-SR | 300m OM3 / 400m OM4 duplex MMF |
| 10GBASE-LR/LRL | 10km/1km duplex SMF |
| 10GBASE-ER | 40km duplex SMF |
| 10GBASE-ZR | 80km duplex SMF |
| 10GBASE-DWDM | 80km duplex SMF (DWDM) |
| 100M, 1GbE SX/LX/TX | Supported |
| Interface Type | QSFP Ports |
| 100GBASE-AOC | 1m to 30m |
| 100GBASE-SR4 | 70m OM3 / 100m OM4 parallel MMF |
| 100GBASE-SWDM4 | 70m OM3 / 100m OM4 duplex MMF |
| 100GBASE-SRBD | 70m OM3 / 100m OM4 duplex MMF |
| 100GBASE-PSM4 | 500m parallel SMF |
| 100GBASE-CWDM4 | 2km duplex SMF |
| 100GBASE-LR4/LRL4 | 10km/2km duplex SMF |
| 100GBASE-ERL4 | 40km/30km duplex SMF |
| 40GBASE-AOC | 3m to 100m |
| 40GBASE-SR4 | 100m OM3 / 150m OM4 parallel MMF |
| 40GBASE-XSR4 | 300m OM3 / 400m OM4 parallel MMF |
| 40GBASE-SRBD | 100m OM3 / 150m OM4 duplex MMF |
| 40GBASE-UNIV | 150m (OM3) /150m (OM4) /500m (SM) |
| 40GBASE-PLR4/PLRL4 | 10km/1km duplex SMF (4x10G LR/LRL) |
| 40GBASE-LR4/LRL4 | 10km/1km duplex SMF |
| 40GBASE-ER4 | 40km duplex SMF |

* MACsec encryption can be used in 100G mode only

** Typical power consumption measured at 25C ambient with 50% load on all ports

| Scale | 7280SRA | 7280CR2 |
|--------------------------|------------|------------|
| MAC Addresses | 768K | 768K |
| IPv4 Host Routes | 768K | 768K |
| IPv6 Unicast Host Routes | 768K | 768K |
| IPv4 Unicast LPM Routes | Over 1M | 1.3M |
| IPv6 Unicast LPM Routes | 1M | 1.3M |
| Multicast Routes | Up to 768K | Up to 768K |
| ACL Entries | 24K | 24K |

Power Supply Specifications

| Power Supply | PWR-500AC | PWR-500-DC | PWR-1600AC |
|-----------------------|--------------|----------------------------|--------------|
| Input Voltage | 100-240V AC | 40-72V DC | 200-240V AC |
| Typical Input Current | 6.3 - 2.3A | 13.1 - 7.3A 11A at -48V | 11.2 - 9.5A |
| Input Frequency | 50/60Hz | DC | 50/60Hz |
| Input Connector | IEC 320-C13 | AWG #16-#12 | IEC 320-C13 |
| Efficiency (Typical) | 93% Platinum | 90% | 93% Platinum |

Standards Compliance

| | |
|---------------------------|---|
| EMC | Emissions: FCC, EN55022, EN61000-3-2, EN61000-3-3 or EN61000-3-11, EN61000-3-12 (as applicable) Immunity: EN55024 Emissions and Immunity: EN300 386 |
| Safety | UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all country differences |
| Certifications | North America (NRTL) European Union (EU) BSMI (Taiwan) C-Tick (Australia) CCC (PRC) MSIP (Korea) EAC (Customs Union) VCCI (Japan) |
| European Union Directives | 2006/95/EC Low Voltage Directive 2004/108/EC EMC Directive 2011/65/EU RoHS Directive 2012/19/EU WEEE Directive |

Environmental Characteristics

| | |
|-----------------------|----------------------------|
| Operating Temperature | 0 to 40°C (32 to 104°F)* |
| Storage Temperature | -40 to 70°C (-40 to 158°F) |
| Relative Humidity | 5 to 95% |
| Operating Altitude | 0 to 10,000 ft, (0-3,000m) |

*Higher power or reduced temperature range optics may reduce system operating temperature to 35°C (95°F)

| Product Number | Product Description |
|---------------------|---|
| DCS-7280SRAM-48C6-F | Arista 7280RA, 48x10GbE (SFP+) & 6x100GbE QSFP switch router, AlgoMatch and MACsec, expn mem, SSD, front to rear air, 2 x AC |
| DCS-7280SRAM-48C6-R | Arista 7280RA, 48x10GbE (SFP+) & 6x100GbE QSFP switch router, AlgoMatch and MACsec, expn mem, SSD, rear to front air, 2 x AC |
| DCS-7280SRAM-48C6# | Arista 7280RA, 48x10GbE (SFP+) & 6x100GbE QSFP switch router, AlgoMatch and MACsec, expn mem, SSD, configurable fans and psu |
| DCS-7280CR2M-30-F | Arista 7280R2, 30x100GbE QSFP switch, MACsec, front to rear air, 2 x AC |
| DCS-7280CR2M-30# | Arista 7280R2, 30x100GbE QSFP switch, MACsec, configurable fans and psu |
| PWR-500AC-F | Spare 500 Watt AC power supply for Arista 7050X and 7280R 1RU Switches (front-to-rear airflow) |
| PWR-500AC-R | Spare 500 Watt AC power supply for Arista 7050X and 7280R 1RU Switches (rear-to-front airflow) |
| PWR-500-DC-F | Spare 500 Watt DC power supply for Arista 7050X and 7280R 1RU Switches (front-to-rear airflow) |
| PWR-500-DC-R | Spare 500 Watt DC power supply for Arista 7050X and 7280R 1RU Switches (rear-to-front airflow) |
| PWR-1600AC-F | Spare 1600W AC power supply for Arista 7000 Series 1U switches front to rear airflow (7280CR2A-30, 7280CR2K-30 and 7280CR2M-30) |
| FAN-7001D-F | Spare fan module for Arista 7000 Series 1RU switches, front-to-rear airflow (7280CR2A-30, 7280CR2K-30 and 7280CR2M-30) |
| FAN-7000H-F | Spare high speed fan module for Arista 7280R 1RU switches (front to rear airflow) |
| FAN-7000H-R | Spare high speed fan module for Arista 7280R 1RU switches (rear to front airflow) |
| LIC-FIX-2-MACSEC | MACSEC Encryption License for Arista Fixed switches, 1-6 MACSEC capable ports |
| LIC-FIX-2-E | Enhanced L3 License for Arista Fixed switches, 40-132 port 10G (BGP, OSPF, ISIS, PIM, NAT) |
| LIC-FIX-2-V | Virtualization license for Arista Fixed switches, 40-132 port 10G (VMTracer and VXLAN) |
| LIC-FIX-2-Z | Monitoring & provisioning license for Arista Fixed switches, 40-132 port 10G (ZTP, LANZ, TapAgg, OpenFlow) |
| LIC-FIX-2-FLX | FLX License for Arista Fixed Group 2 - Full Routing upto 2M Routes, >24K ACL, EVPN, VXLAN, SR, Adv MPLS-LER/LSR, with TE & link/node protection |
| LIC-FIX-2-FLX-L | FLX-Lite License for Arista Fixed switches Group 2 - Full Routing Up to 256K Routes, EVPN, VXLAN, SR, base MPLS LSR (no TE or link/node protection) |
| LIC-FIX-4-MACSEC | MACSEC Encryption License for Arista Fixed switches, 25-64 MACSEC capable ports |
| LIC-FIX-4-E | Enhanced L3 License for Arista Fixed switches, 288-640 port 10G (BGP, OSPF, ISIS, PIM, NAT) |
| LIC-FIX-4-V | Virtualization license for Arista Fixed switches, 288-640 port 10G (VMTracer and VXLAN) |
| LIC-FIX-4-Z | Monitoring & provisioning license for Arista Fixed switches, 288-640 port 10G (ZTP, LANZ, TapAgg, OpenFlow) |
| LIC-FIX-4-FLX | FLX License for Arista Fixed Group 4 - Full Routing upto 2M Routes, >24K ACL, EVPN, VXLAN, SR, Adv MPLS-LER/LSR, with TE & link/node protection |
| LIC-FIX-4-FLX-L | FLX-Lite License for Arista Fixed switches Group 4 - Full Routing Up to 256K Routes, EVPN, VXLAN, SR, base MPLS LSR (no TE or link/node protection) |
| KIT-7001 | Spare accessory kit for Arista 1RU tool-less switches |
| KIT-2POST-1U-NT | Spare 1RU 2 post rail kit for 1RU tool less systems (7050QX-32S, 7050SX/TX and 7280R) |
| KIT-4POST-NT | Spare 1RU/2RU tool-less rail kits for 4-post installation (7050QX-32S, 7050SX/TX, 7280R and 7250X) |

Note:
- Front-to-rear means the air flows from the switch port side to the fan side. Rear to front means the air flows from the fan side to the switch port side.

Warranty

The Arista 7280R Series switches come with a one-year limited hardware warranty, which covers parts, repair, or replacement with a 10 business day turn-around after the unit is received.

Service and Support

Support services including next business day and 4-hour advance hardware replacement are available. For service depot locations, please see: <http://www.arista.com/en/service>

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