

## AES4804R6-T0 AES4804R7-T0

### Overview

The AES4804R Series Routing Switches are AERODEV's high performance Ethernet switches designed based on high-end scalable chipset with integration of Layer 2 to Layer 4 packet processing engine, traffic management and fabric interface.

The AES4804R Series are cost-effective Ethernet access and aggregation platform to Metro, Enterprise and Data Center application. It provides high port density with 48GE fixed port and adopts flexible modular design to support maximum 4 x 10G uplinks.



AES4804R Series Routing Switches

### Features

#### Technical highlights

- Standard 1U chassis
- 176Gbps switching capacity
- Flexible modular uplink design
- Green and power-saving
- L2/L3/MPLS capability
- Service awareness Architecture
- Integrated advanced Metro features
- MEF9/14 Service Compliant
- Configurable profile for complicated deployment scenarios

#### Modular Uplink Design

- Up to 48 x 1GE fixed port
- Flexible to support 1G and 10G uplinks
- Up to 4 x 10GE uplinks

#### Flexible Table Size Management

- Configurable profiles for different MAC/IP/MPLS/ACL/Mcast distribution

- Up to 64K MAC address (AES4804R7 support)
- Up to 8K ACL

#### Advanced Metro Features

- Hardware based 802.1ag/802.3ah,Y.1731
- G.8031/G.8032 APS

#### Service Awareness Architecture

- Support service id concept with a flexible service classifier

#### Reliability

- Support STP/MSTP/RSTP/LACP/VRPP
- Sysmon monitors real-time CPU status
- ERPS (Ethernet Ring Protection Switching) allows for a fault tolerant ring network topology

#### Triple-play service

- Based on our Networks' proprietary, high performance ASIC technology, the AES4804R series fulfills high quality of service requirements with flexible queuing
- Up to 16K multicast groups, 1K physical replications and 4K logical replications, which makes it perfect to deliver broadcast TV and VoD

#### Advanced QoS

- Support up to 2K queues
- Supports Layer 2 to Layer 4 flow classification
- Up to 4K flow policies
- Supports multi-stage scheduling (SP, WDRR, SP + WDRR) and Tail drop/WRED

#### Layer 2/3 VPN

- Selective QinQ feature strictly conforms to 802.1Q and 802.1ad
- Supports full set of MPLS switching and control protocols such as LDP/MPLS BGP VPN/VPLS/VPWS and VRF-Lite

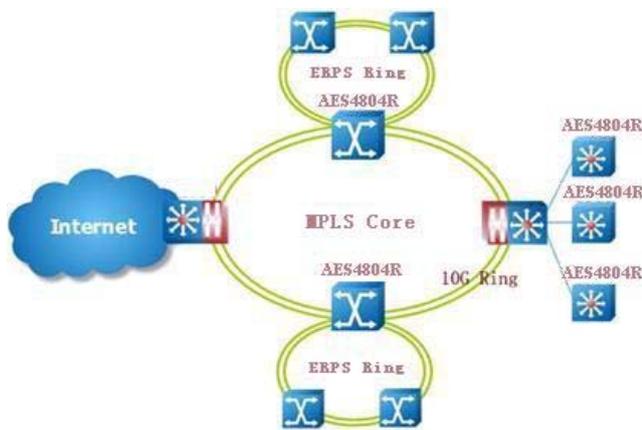
#### Network Security

- Supports centralized port-based and MAC-based 802.1x authentication
- Supports standard and extended ACL.

- MAC port binding, port isolation, private VLAN, MAC security and MAC filtering
- DoS attack and CPU traffic protection.

## Applications

Ring network topology allows service provider to establish robust network and operate multiple services. The AES4804R Series is ideal for service provider Metro Ethernet access deployment, allowing providers to offer convergent application portfolio such as VPLS/VPWS/MPLS L3 VPN to their enterprise or individual users.



## Software Options

AES4804R Series Switches offer three different feature images, IP Base, IP Services and Advanced IP Services, providing cost-effective and smooth service upgrade options. The service providers can choose the features they need today and have the option of software upgrade in the future.

Table 1 lists primary features in the Software.

<b>IP Base</b>	<ul style="list-style-type: none"> <li>• L2 Switching/Selective QinQ/VLAN Translation/MVR/ERPS/Static IPv4/Ipv6 Dual Stack Routing/ RIPv1/v2/ VRRP/ ECMP/Smart link/ Extended ACL/QoS/G.8031/G.8032/ /CFM/EFM/Y.1731 etc</li> </ul>
<b>IP Services</b>	<ul style="list-style-type: none"> <li>• IP Base /OSPF/IGMP v1/v2 / PIM-SM /Route Map etc</li> </ul>
<b>Advanced IP Services</b>	<ul style="list-style-type: none"> <li>• IP Services/BGP*/VPWS/VPLS/ VRF Lite/Static MPLS Forwarding/ LDP/MPLS/BGP VPN*/ MPLS-TE*/ FRR*/ MPLS-TP* etc</li> </ul>

\*Features on roadmap

## Ordering Information

Model	Descriptions
AES4804R6-T0	48 10M/100M/1000M RJ45 ports, Gigabit Routing Switch
AES4804R7-T0	48 SFP ports, Gigabit Routing Switch
AESR-UP-4SFP	Uplink module, 4 1000Base-X SFP ports (for AES4804R6, AES4804R7)
AESR-UP-2SFPP	Uplink module, 2 1G/10G SFP+ ports
AESR-UP-4SFPP	Uplink module, 4 1G/10G SFP+ ports
AES-SFP-FGM05LC-C	SFP gigabit optical module, multimode 0.5 kilometer, LC, -10°C~70°C
AES-SFP-FGS15LC-C	SFP gigabit optical module, single mode 15 kilometer, LC, -10°C~70°C
AES-SFP-FGS40LC-C	SFP gigabit optical module, single mode 40 kilometer, LC, -10°C~70°C
AES-SFP-FGS80LC-C	SFP gigabit optical module, single mode 80 kilometer, LC, -10°C~70°C
AES-SFPP-XGSRM03LC-C	SFP+ 10G optical module, multimode 0.3 kilometer, LC, -10°C~70°C
AES-SFPP-XGLRS10LC-C	SFP+ 10G optical module, single mode 10 kilometer, LC, -10°C~70°C
AES-SFP-TG-C	SFP gigabit electronic module, 1000M/100M/10M adaptive, RJ45, 0°C~70°C
AESR-150-AC	AC110V~AC220V wide range power supply; operation: 100~240V, 50/60Hz; max: 90~264V, 47~63Hz
AESR-150-DC	DC48V wide range power supply; operation: -48~-60V; max: -36~-72V

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