

AS4610 Series 1GbE Data Center and Enterprise Switch Bare-Metal Hardware

Design Contributed to Open Compute Project



Product Overview

The AS4610-54T is ideal as a data center top-of-rack switch or IPMI (Intelligent Platform Management Interface) switch, it includes redundant hot-swappable AC PSUs and port-to-power airflow. The AS4610-30T, AS4610-30P, and AS4610-54P are ideal for campus networking, with the AS4610-30P and AS4610-54P able to provide up to 30 Watts of power per port to attached devices (eight ports support UPoE up to 60 W per port), such as VoIP phones, wireless access points, surveillance cameras etc, fully utilizing existing Cat. 5 cable infrastructure.

Key Features and Benefits

- Cost-effective, bare-metal infrastructure for data center racks.
- 1 GbE connections to server and storage nodes in rack, with 10 GbE uplinks to spine network.
- PoE models ideal for enterprise, hospitality, warehouse applications interconnecting security, camera, WiFi devices.
- 24/48 x 10/100/1000BASE-T RJ-45 ports.
- 4 x SFP+ uplink ports, supporting 10 GbE (DAC, 10GBASE-SR/LR/ER/LRM) or 1 GbE (1000BASE-T/SX/LX).
- Full line-rate L2 or L3 forwarding and switching.
- Energy efficiency: Maximum 99.1 W system power consumption excluding PoE power consumption.
- Hot-swappable, load-sharing, redundant AC PSUs.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.
- Compatible with Cumulus[®] Linux[®] r2.5.4 and later version from Cumulus Networks[®]. (AS4610-54T and AS4610-54P only)
- All AS4610 models are compatible with PicOS[™] r2.6.2 and later version from Pica8 Inc.



Data Center Switch

For a world always connected...

AS4610 Series Product Specifications

Features

	Product Model	AS4610-30T	AS4610-30P	AS4610-54T	AS4610-54P
	Product Image	A minimize	â <u></u>	400000000000000000000000000000000000000	4911111111111111111111111
Port	RJ-45 10/100/1000 Ports	24	24	48	48
	10G SFP+ Uplink Ports	4	4	4	4
	20G QSFP+ Stacking Ports	2	2	2	2
	PoE Ports	Х	24	Х	48
	Micro USB Console Port	0	0	0	0
Performance	Switching Capacity	104 Gbps	104 Gbps	128 Gbps	128 Gbps
	Forwarding Capacity	156 Mpps	156 Mpps	191 Mpps	191 Mpps
	Memory	2 G	2 G	2 G	2 G
	SPI Flash	8 MB	8 MB	8 MB	8 MB
	NAND Flash	8 GB	8 GB	8 GB	8 GB
	MAC Address Table Size	96 K	96 K	96 K	96 K
	Jumbo Frames	12 KB	12 KB	12 KB	12 KB
PoE	IEEE 802.3af (15 W)	Х	24	Х	48
	IEEE 802.3at (30 W)	Х	24	Х	48
	UPoE (60 W)	Х	8	Х	8
	PoE Power Budget	Х	960 W	Х	1650 W
Mechanical	Rack Space	19"	19"	19"	19"
	Dimension (W x D x H) cm	44 x 35 x 4.5	44 x 35 x 4.5	44 x 35 x 4.5	44 x 35 x 4.5
	Weight	5.16 kg	6.02 kg	5.38 kg	6.36 kg
Power Supply	100-240 VAC, 50-60 Hz	0	0	0	0
	Max System Power Consumption (Watts)	76.1 W	81.72 W	92.2 W	99.1 W
Environmental	Operating Temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
	Operating Humidity (non-condensing)	5% to 95%	5% to 95%	5% to 95%	5% to 95%
	Environmental Regulation compliance: WEEE	0	0	0	0
	Environmental Regulation compliance: RoHS	0	0	0	0
Certification	FCC Class A	0	0	0	0
	CE	0	0	0	0
	Safety Compliance: CB	0	0	0	0
	Safety Compliance: UL	0	0	0	0
	ссс	Х	Х	Х	0
	BSMI	0	0	0	0

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AS4610 Series Product Specifications

www.edge-core.com

Pots Software Switch is Ports: Switch is loaded with Open Network Install Environment (ONE) 4 × 103 GFP+ ports supporting 1006 or 16 Switch is loaded with Open Network Install Environment (ONE) 5 × 206 GFP+ Stacking Port (requires NOS to support hardware installer Switch is loaded with Open Network Install Environment (ONE) 1 × RUGO SFP+ ports supporting 1006 are Switch is loaded with Open Network Install Environment (ONE) 1 × RUARD VERS Berial console Switch is loaded with Open Network Install Environment (ONE) 1 × RUARD VERS Berial console Switch is loaded with Open Network Install Environment (ONE) 2 × 200 GSFP+ Stacking Port (requires NOS to support hardware isstaller) Switch is loaded with Open Network Install Environment (ONE) 3 × 800 Formarce POWer Cumulus Linux r2.5.4 and later version from Cumulus Networks X × 206 DDRS SDRAM ECC Input Vortage: 0 to 264 VAC at 50-600 Hz. Input Vortage: 0 to 264 VAC at 50-600 Hz. Yelical Power consumption (under line-rate, 48 x 1 GbE Cat 6, 4 × 10GBASE-ST. A \$4610-30T/AS4610-30P: 30 ABCC Power Switch is loaded with Open Astronome DCM56342 Helix4 Switch is loaded with Open Astronome DCM56342 Helix4 Switch is loaded with Open Astronome DCM56342 Helix4 A \$410-30T/AS4610-30P: 30 MDR Co CGBASE-ST. Switch is loaded with Open Astrawore of the start astronome DCM56342 Helix4
Switch Ports: 24/48 x R1-45 100/1000BASE-T ports 24/48 x R1-45 100/1000BASE-T ports 35/200 4 x 10G SFP+ stacking Port (requires NOS to support hardware installer) Switch is loaded with Open Network Install Environment (ONIE) software installer 2 x 20G QSFP+ Stacking Port (requires NOS to support hardware installer) Switch is loaded with Open Network Install Environment (ONIE) 1 x IUS Group Components Switch Silcon: Switch Silcon: PSUs: 2 redunat, load-sharing, hot-swappable AC New Components PSUs: 2 redunat, load-sharing, hot-swappable AC New Components PSUs: 2 redunat, load-sharing, hot-swappable AC Number 2 GB DDRS SDRAM ECC Input Current: Max 13 A@100/120 VAC; 3 A@200/240 VAC Flash: 8 MB SPI Flash, 8 GB NAND Flash EMI: Performance CC Part 15 Class A Wrie Speed Forwarding: L2 and L3 CCC GB9254-2008 (AS4610-54P: 117 W Switch Silco-447/AS4610-34P: 128 Gbps CCC GB9254-2008 (AS4610-54P only) Forwarding Rate: Safe10-547/AS4610-34P: 131 Mpps MAC Addresses: up to 12 KB Safe10-547/AS4610-54P only) L3 Entry: IPv4/IPv6 96 K/48 k Unicast, 48 k/24 k Multicast Facket Buffer Size: 4 MB shared buffer pool GE R_L45 Ports: Cat 5/56/6 up to 100 m CCC GB4242-201 (AS4610-54P only)
24/48 x RJ-45 100/1000BASE-T ports 4 x 10G SFP+ ports 2 x 20G QSFP+ Stacking Port (requires NOS to support hardware stacking feature) Management Ports on front (port) side: 1 x Micro USB serial console 1 x Witro Disg serial console 1 x USB Type A storage port Key Components Switch Silicon: As4610-547F, Na54610-30P: Broadcom BCM56342 Helix4 AS4610-547F, Stacking Coapecity: As4610-547F, Stacking Coapecity: As4610-307F/AS4610-30P: 104 Gbps As4610-30
4 x 10G SFP+ ports supporting 10G or 1G 2 x 20G QSFP+ Stacking Port (requires NOS to support hardware stacking feature) Management Ports on front (port) side: 1 x Micro USB serial console 1 x RJ-45 100/1000BASE-T management port 1 x USB Type A storage port Power Switch Silicon: AS4610-3071/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-3071/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-3071/AS4610-30P: Broadcom BCM56342 Helix4 Compatible with the following NOS options: AS4610-3071/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-3071/AS4610-34P: 128 Gba Compatible with the following NOS options: AS4610-3471/AS4610-34P: 128 Gbps Forwarding Rate: AS4610-3471/AS4610-34P: 128 Gbps Forwarding Rate: AS4610-3471/AS4610-34P: 128 Gbps Forwarding Star A AS4610-3471/AS4610-34P: 128 Gbps Forwarding Rate: AS4610-3471/AS4610-34P: 128 Gbps Forwarding: L2 and L3 Suptor 12 KB L3 Forkics: 4
stacking feature) Management Ports on from (port) side: 1 x RJ-45 100/1000BASE-T management port 1 x USB Type A storage port Key Components Switch Silicon: A S4610-5471/AS4610-30P: Broadcom BCM56342 Helix4 A S4610-5471/AS4610-30P: Broadcom BCM56342 Helix4 A S4610-5471/AS4610-34P: Broadcom BCM56342 Helix4 A S4610-5471/AS4610-54P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND Flash Performance Wire Speed Forwarding: L2 and L3 Switch 05471/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-3071/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-3071/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-3071/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDS: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 B6 K/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool Supported Optics and Cables GE RJ-45 Ports: Cat 5/56/6 up to 100 m SFP+ Ports: 10GBASE-SR DAC: 0.5 m to 7 m 10GBASE-SR Ports: Cat 5/56/6 up to 100 m SFP+ Ports: CastP Ports: Cat 5/56/6 up to 100 m SFP+ Ports: 10GBASE-SR DAC: 0.5 m to 7 m 10GBASE-SR Ports: Cat 5/56/6 up to 100 m SFP+ Ports: CastP Ports: Cat 5/56/6 up to 100 m SFP+ Ports: 100DBASE-SX, 1000BASE-X, 100/100DBASE-T CASTP Ports On to 100/300 m over GM3 MMF 100DBASE-SX, 1000BASE-X, 100/100BASE-T CASTP Ports: 100DBASE-SX, 1000BASE-X, 100/100BASE-T
Management Ports on front (port) side: 1 × Micro USB serial console 4.54610-5471 and AS4610-54P: 1 × Micro USB serial console 2.54 and later version from Cumulus Networks 1 × USB Type A storage port Power Switch Silicon: Power Switch Silicon: AS4610-307/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-307/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-5471/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-5471/AS4610-30P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1 GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND Flash Performance EMI: Wire Speed Forwarding: L2 and L3 CC C GB254-2008 (AS4610-54P: 100 W Switching Capacity: AS4610-5471/AS4610-30P: 104 Gbps AS4610-307/AS4610-30P: 104 Gbps CC GB254-2008 (AS4610-54P only) AS4610-5471/AS4610-30P: 95 Mpps CC GB2254-2008 (AS4610-54P only) AS4610-307/AS4610-30P: 95 Mpps Shock: IEC 68-2-36, IEC 68-2-6 Jumbo Frames: Up to 12 KB Shock: IEC 68-2-36, IEC 68-2-6 Jumbo Frames: Up to 12 KB Shock: IEC 68-2-36, IEC 68-2-6 L3 Entry: IPv4/IPv6 86 K48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool UL (CSA 22.2 No 60950-1 & UL 60950-1) CC GB43-2011 (AS4610-54P only)
1 x Micro USB serial console Cumulus Linux r2.5.4 and later version from Cumulus Networks 1 x USB Type A storage port Power Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Not used colspan="2">Cumulus Linux r2.5.4 and later version from Cumulus Networks Not used colspan="2">Cumulus Linux r2.5.4 and later version from Cumulus Networks Not used colspan="2">Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version from Cumulus Networks Cumulus Linux r2.5.4 and later version for Mculus Networks Cumulus Linux r2.5.4 and later version for Mculus Networks Cumulus Li
1 x RJ-45 100/1000BASE-T management port 1 x USB Type A storage port Power Switch Silicon: Switch Silicon: AS4610-30T/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-30T/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-30T/AS4610-30P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND Flash Performance Wire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-30T/AS4610-30P: 104 Gbps AS4610-30T/AS4610-30P: 95 Mpps AS4610-30T/AS4610-30P: 100 Km U3 Entry: IPv4/IPv6 96 K44 k Kulciast Packet Buffer Size: 4 MB shared buffer pool Supported Optics and Cables 10GBASE-RR DAC; 0.5 m to 7 m 10GBASE-RR DAC; 0.5 m to 7 m 10GB
Kay Components Switch Silicon: Switch Silicon: AS4610-307/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-547/AS4610-54P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND Flash Performance Wire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-507/AS4610-30P: 104 Gbps AS4610-507/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-507/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool UE SFP+ Ports: 10GBASE-SRUSR; up to 1000 m SFP+ Ports: 10GBASE-SRUSR; up to 1000 m OFFP+ Ports 10GBASE-LR; up to 100 km over SMF 1000BASE-LR; up to 100 km over SMF
Key ComponentsSwitch Silicon: A\$4610-3071/AS4610-30P: Broadcom BCM56342 Helix4 A\$4610-3071/AS4610-30P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHzInput Current: Max 13 A@100/120 VAC, 3 A@200/240 VAC Typical Power consumption (under line-rate, 48 x 1 GbE Cat 6, 4 x 10GBASE-SR test condition): A\$4610-30T/AS4610-30P: 100 W A\$4610-54T/AS4610-54P: 128 dBpsPerformanceEMI: CC Bart 15 Class A VCCI Class A CCC GB9254-2008 (A\$4610-54P: 117 WWire Speed Forwarding: L2 and L3 Switching Capacity: A\$4610-30T/A\$4610-30P: 104 Gbps A\$4610-54T/A\$4610-54P: 128 Gbps Forwarding Rate: A\$4610-54T/A\$4610-54P: 128 Gbps SA54610-54T/A\$4610-54P: 128 Gbps Forwarding Rate: A\$4610-54T/A\$4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolEnvironmental: Temperature: IEC 68-2-36, IEC 68-2-6 Drop: IST A 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CC GB432-2011 (A\$4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Warranty Port on Optional Module:Warranty Prescence come for the warranty terms in your country.
Switch Silicon: AS4610-30T/AS4610-30P: Broadcom BCM56342 Helix4 AS4610-54T/AS4610-54P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND FlashInput Current: Max 13 A@100/120 VAC, 3 A@200/240 VAC Typical Power consumption (under line-rate, 48 x 1 GbE Cat 6, 4 x 10GBASE-SR test condition): AS4610-30T/AS4610-30P: 100 W AS4610-30T/AS4610-30P: 104 Gbps AS4610-30T/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-34T/AS4610-54P: 128 Gbps Forwarding Rate:
AS4610-547/AS4610-54P: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND Flash Performance Wire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-307/AS4610-30P: 104 Gbps AS4610-547/AS4610-30P: 104 Gbps AS4610-547/AS4610-30P: 128 Gbps Forwarding Rate: AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-30P: 95 Mpps AS4610-547/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDS: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool Supported Optics and Cables GE RJ-45 Ports: Cat 5/5e/6 up to 100 m SFP+ Ports: 106BASE-SRL/SR; up to 100/300 m over OM3 MMF 106BASE-SRL/SR; up to 100/300 m o
CPU: Dual-core ARM Cortex A9 1GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 8 GB NAND FlashAS4610-30T/AS4610-54P: 117 WPerformanceEMI: CE Mark (EN55022 Class A) FCC Part 15 Class A VCCI Class A CCC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)PerformanceEMI: CC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)As4610-30T/AS4610-30P: 104 Gbps AS4610-30T/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-30T/AS4610-30P: 95 Mpps AS4610-30T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolEnvironmental: Temperature: IEC 68-2-14 Shock: IEC 68-2-26 Ubration: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Supported Optics and Cables 10GBASE-SR, JO00BASE-LR; up to 10 km over SMF 100BASE-SR, 1000BASE-X, 1000BASE-T QSFP Port on Optional Module:MAC MarrantyWarranty 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:Warranty terms in your country.
Memory: 2 GB DDR3 SDRAM ECC Flash, 8 MB SPI Flash, 8 GB NAND FlashAS4610-54T/AS4610-54P: 117 WPerformanceEMI:Wire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-30T/AS4610-30P: 104 Gbps AS4610-54T/AS4610-54P: 128 GbpsEMI: CE Mark (EN55022 Class A) FCC Part 15 Class A VCCI Class A CCC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)AS4610-54T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolEnvironmental: Temperature: IEC 68-2-14 Shock: IEC 68-2-60 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1)Supported Optics and Cables 1 0GBASE-SRL/SR; up to 100/300 m over OM3 MMF 1 0GBASE-SRL/SR; up to 100/300 m over OM3 MMF 1 0GBASE-LR; up to 10 km over SMF 1 000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:AS4610-54T/AS4610-54P entry. Please check www.edge-core.com for the warranty terms in your country.
PerformanceRegulatoryWire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-30T/AS4610-30P: 104 Gbps AS4610-54T/AS4610-54P: 128 GbpsEMI: CE Mark (EN55022 Class A) FCC Part 15 Class A VCCI Class A CCC GB254-2008 (AS4610-54P only) BSMI (CNS13438)Forwarding Rate: AS4610-54T/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-30T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPV4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolEnvironmental: Temperature: IEC 68-2-14 Shock: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Warranty 100BASE-SRL/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 1000BASE-SRL/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 1000BASE-LR; up to 10 km over SMF 1000BASE-LR; up to 10 Optional Module:Warranty Please check www.edge-core.com for the warranty terms in your country.
PerformanceWire Speed Forwarding: L2 and L3 Switching Capacity: AS4610-30T/AS4610-30P: 104 Gbps AS4610-54T/AS4610-30P: 128 GbpsEMI: CE Mark (EN55022 Class A) FC Part 15 Class A VCCI Class A CCC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)Forwarding Rate: AS4610-54T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolEMI: CE Mark (EN55022 Class A) FCC Part 15 Class A VCCI Class A CCC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)Supported Optics and Cables (GE RJ-45 Ports: Cat 5/5e/6 up to 100 m SFP+ Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-SRI/SR; up to 10/300 m over OM3 MMF 10GBASE-SRI/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 100BASE-SRI, sup to 100 m SFP Port on Optional Module:EMI: CE Mark (EN55022 Class A) FCC Part 15 Class A VCCI Class A CCC GB9254-2008 (AS4610-54P only) BSMI (CNS14336)Warranty Please check www.edge-core.com for the warranty terms in your country.
Wire Speed Forwarding: L2 and L3Switching Capacity: AS4610-30T/AS4610-30P: 104 GbpsAS4610-54T/AS4610-30P: 104 GbpsAS4610-54T/AS4610-30P: 104 GbpsAS4610-54T/AS4610-30P: 128 GbpsForwarding Rate: AS4610-54T/AS4610-30P: 95 MppsAS4610-54T/AS4610-30P: 95 MppsAS4610-54T/AS4610-54P: 131 MppsMAC Addresses: up to 96KVLAN IDs: 4KJumbo Frames: Up to 12 KBL3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k MulticastPacket Buffer Size: 4 MB shared buffer poolSEPP+ Ports:10GBASE-CR DAC; 0.5 m to 7 m10GBASE-CR DAC; 0.5 m to 7 m10GBASE-SX, 1000BASE-TQSFP Port on Optional Module:205P Port on Optional Module:
AS4610-30 ^T /AŠ4610-30P: 104 Gbps AS4610-54T/AS4610-54P: 128 Gbps Forwarding Rate: AS4610-30T/AS4610-30P: 95 Mpps AS4610-54T/AS4610-54P: 131 Mpps AS4610-54T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool Supported Optics and Cables GE RJ-45 Ports: Cat 5/5e/6 up to 100 m SFP+ Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-LR; up to 10 km over SMF 100BASE-LR; up to 10 km over SMF 100BASE-
AS4610-54T/AS4610-54P: 128 GbpsCCC GB9254-2008 (AS4610-54P only)Forwarding Rate:AS4610-30T/AS4610-30P: 95 MppsAS4610-54T/AS4610-30P: 95 MppsBSMI (CNS13438)AS4610-54T/AS4610-54P: 131 MppsBSMI (CNS13438)MAC Addresses: up to 96KTemperature: IEC 68-2-14VLAN IDs: 4KShock: IEC 68-2-29Jumbo Frames: Up to 12 KBDrop: ISTA 2AL3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k MulticastRoHS-6 CompliantPacket Buffer Size: 4 MB shared buffer poolSafety:UL (CSA 22.2 No 60950-1 & UL 60950-1)CCC GB4943-2011 (AS4610-54P only)SFP+ Ports:0GBASE-CR DAC; 0.5 m to 7 m10GBASE-SRL/SR; up to 100/300 m over OM3 MMFCountry of Origin: Taiwan (TAA Compliant)10GBASE-SRL, yup to 100/300 m over OM3 MMFCountry of Origin: Taiwan (TAA Compliant)00BASE-SX, 1000BASE-LX, 100/1000BASE-TPlease check www.edge-core.com for the warranty terms in your country.
Forwarding Rate: AS4610-30T/AS4610-30P: 95 Mpps AS4610-54T/AS4610-54P: 131 MppsBSMI (CNS13438)AS4610-54T/AS4610-54P: 131 MppsEnvironmental: Temperature: IEC 68-2-14 Shock: IEC 68-2-29MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolTemperature: IEC 68-2-14 Shock: IEC 68-2-29 Vibration: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2ASupported Optics and CablesCCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336)GE RJ-45 Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-LR; up to 10 km over SMF 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:BSMI (CNS14338)WarrantyPlease check www.edge-core.com for the warranty terms in your country.
AS4610-54T/AS4610-54P: 131 Mpps MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer pool Supported Optics and Cables GE RJ-45 Ports: Cat 5/5e/6 up to 100 m SFP+ Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-LR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 100 mover SMF 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module: AS4610-54P intro-state for the warranty terms in your country.
MAC Addresses: up to 96K VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolShock: IEC 68-2-29 Vibration: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)StepsShock: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)MackWarranty Please check www.edge-core.com for the warranty terms in your country.
VLAN IDs: 4K Jumbo Frames: Up to 12 KB L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolVibration: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A RoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Supported Optics and Cables (SFP+ Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-LR; up to 10 km over SMF 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:WarrantyWarranty
L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast Packet Buffer Size: 4 MB shared buffer poolRoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Supported Optics and CablesRoHS-6 Compliant Safety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Supported Optics and CablesWarranty0GBASE-CR DAC; 0.5 m to 7 m 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:WarrantyPlease check www.edge-core.com for the warranty terms in your country.Please check www.edge-core.com for the warranty terms in your country.
Packet Buffer Size: 4 MB shared buffer poolSafety: UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CB (IEC/EN60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)Steps<
Supported Optics and CablesUL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336) Country of Origin: Taiwan (TAA Compliant)10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module:Warranty Please check www.edge-core.com for the warranty terms in your country.
GE RJ-45 Ports: Cat 5/5e/6 up to 100 m CCC GB4943-2011 (AS4610-54P only) SFP+ Ports: BSMI (CNS14336) 10GBASE-CR DAC; 0.5 m to 7 m Country of Origin: Taiwan (TAA Compliant) 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF Country of Origin: Taiwan (TAA Compliant) 10GBASE-LR; up to 10 km over SMF Warranty 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T Please check www.edge-core.com for the warranty terms in your country.
SFP+ Ports: BSMI (CNS14336) 10GBASE-CR DAC; 0.5 m to 7 m Country of Origin: Taiwan (TAA Compliant) 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF Warranty 10GBASE-LR; up to 10 km over SMF Warranty 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T Please check www.edge-core.com for the warranty terms in your country.
10GBASE-CR DAC; 0.5 m to 7 m Country of Origin: Taiwan (TAA Compliant) 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF Warranty 10GBASE-LR; up to 10 km over SMF Warranty 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T Please check www.edge-core.com for the warranty terms in your country.
10GBASE-LR; up to 10 km over SMFWarranty1000BASE-SX, 1000BASE-LX, 100/1000BASE-TPlease check www.edge-core.com for the warranty terms in your country.QSFP Port on Optional Module:country.
1000BASE-SX, 1000BASE-LX, 100/1000BASE-TPlease check www.edge-core.com for the warranty terms in your country.QSFP Port on Optional Module:country.
QSFP Port on Optional Module: country.
40GBASE-CR4 DAC; 0.5 m to 7 m
40GBASE-SR4; up to 100 m over OM3 MMF, 150 m over OM4 MMF To find out more about Edgecore Networks Corporation products
40GBASE-SR4 to 4x10GBASE-SR; 100 m over OM3, 150 m and solutions, visit www.edge-core.com.
OM4
40GBASE-LR4; up to 10 km over SMF About Edgecore Networks Corporation Edgecore Networks Corporation is in the business of providing
Physical and Environmental innovative network solutions. In the service provider network, in
Dimensions (HxWxD): 4.5 x 44 x 35 cm (1.7 x 17.3 x 16.1") 1 RU Weight the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the
Weight AS4610-30T: 5.16 kg (11.37 lb)
AS4610-30P 6.02 kg (13.27 lb) and partners worldwide. Additional information can be found at
AS4610-54T: 5.38 kg (11.86 lb) www.edge-core.com.
AS4610-54P: 6.36 kg (14.02 lb) Fans: Edgecore Networks Corporation is a subsidiary of Accton
AS4610 30T/AS4610 54T: DSU fanc.
AS4610-301/AS4610-341. FS0 fails AS4610-301/AS4610-54P: System fan and PSU fans The Edgecore Data Center switches are developed and manufactured by Accton.
Operating Temperature: 0°C to 45°C
Operating Universities Edgecore Networks solutions, please contact your
(HO) or +1 (949)-336-6801 or authorized resellers
LEDs GE RJ-45 SFP+ Port LEDs: Link Speed, Link Status, Activity © Copyright 2016 Edgecore Networks Corporation. The information contained herein is subject to change
10C SEP+ Dort LEDs: Link Speed Link Status, Activity, without notice. This document is for informational purposes only and does not set forth any warranty,
Ethernet Management Port LED: Link Status, Activity Networks Corporation. Edgecore Networks Corporation shall not be liable for technical or editorial errors
System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN, PoE

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Ordering Information

Base Model: AS4610 Series with ONIE software Installer

Model Number	PSU	Airflow	Region (power cord)			
4610-54T-O-AC-F-US	dual AC PSUs	port-to-power airflow	N. America			
4610-54T-O-AC-F-EU	dual AC PSUs	port-to-power airflow	Europe			
4610-54T-O-AC-F-UK	dual AC PSUs	port-to-power airflow	ик			
4610-54T-O-AC-F-JP	dual AC PSUs	port-to-power airflow	Japan			
4610-54P-O-AC-F-US	dual AC PSUs	port-to-power airflow	N. America			
4610-54P-O-AC-F-EU	dual AC PSUs	port-to-power airflow	Europe			
4610-54P-O-AC-F-UK	dual AC PSUs	port-to-power airflow	UK			
4610-54P-O-AC-F-JP	dual AC PSUs	port-to-power airflow	Japan			
4610-30T-O-AC-F-US	dual AC PSUs	port-to-power airflow	N. America			
4610-30T-O-AC-F-EU	dual AC PSUs	port-to-power airflow	Europe			
4610-30T-O-AC-F-UK	dual AC PSUs	port-to-power airflow	UK			
4610-30T-O-AC-F-JP	dual AC PSUs	port-to-power airflow	Japan			
4610-30P-O-AC-F-US	dual AC PSUs	port-to-power airflow	N. America			
4610-30P-O-AC-F-EU	dual AC PSUs	port-to-power airflow	Europe			
4610-30P-O-AC-F-UK	dual AC PSUs	port-to-power airflow	UK			
4610-30P-O-AC-F-JP	dual AC PSUs	port-to-power airflow	Japan			
PSU-AC-150W-F	150W AC Power Supply FRU	port-to-power airflow	no power cord			
PSU-AC-600W-F	600W AC Power Supply FRU	port-to-power airflow	no power cord			
PSU-AC-900W-F	900W AC Power Supply FRU	port-to-power airflow	no power cord			
Model Number	Description					
4610-54T-SVC-RTF	AS4610-54T Annual Hardware Service, Return-to-Factory option for after warranty period					
RKIT-85-4610	Rack mount kit (for AS4610-54P/ AS4610-54T/ AS4610-30P/ AS4610-30T)					
CBL-PWR-US	AC Power Cable - US (125V/13A, 1830mm) – only required with spare power supplies					
CBL-PWR-EU	AC Power Cable - Europe (250V/10A, 1830mm) - only required with spare power supplies					
CBL-PWR-UK	AC Power Cable - UK (250V/10A, 1830mm) – only required with spare power supplies					
CBL-PWR-JP AC Power Cable - Japan – only required with spare power supplies						