

AVAYA **ETHERNET ROUTING SWITCH 5900**

PRODUCT HIGHLIGHTS:

- High-end Wiring Closet **Switches**
- Delivers Enabled Edge for the Avaya SDN Fx™ Architecture
- Agile support for Avaya Fabric Connect network virtualization technologies
- Advanced IPv4 & IPv6 Routing
- Non-blocking, wire-speed switching performance
- High-capacity Stackable Chassis architecture
- 24, 48, or 96 ports of Gigabit Ethernet for access connectivity
- Introducing support for 2.5 Gigabit Ethernet high-speed
- 4 ports of 10 Gigabit
- Optional support for fullpower PoE/PoE+, & Four-Pair PoE
- · Field-replaceable, highavailability AC Power & Cooling, with flexible airflow

Next-generation, high-performance, feature-rich Ethernet Switch platforms specifically optimized for the Wiring Closet demands of the highperformance Enterprise. Avaya Ethernet Routing Switch 5900 products deliver the agility to perform equally in conventional IP and Ethernet Fabric-based networking solutions.

The Ethernet Routing Switch 5900 products leverage the latest advances in network switching architecture design to maximize hardware performance and software capability. These products represent a clear evolutionary step for the Ethernet Routing Switch 5000 Series, particularly in terms of value and future-ready flexibility, and have been optimized for the Enabled Edge role.

The primary purpose of a network is to interconnect users with their applications, and the best networks do this reliably, efficiently, and with a high degree of agility. Avaya's SDN Fx™ architecture empowers companies to extend the virtualized Ethernet Fabric beyond the Data Center, to the very edge of the network, delivering powerful integration of users, applications, and devices.

The Ethernet Routing Switch 5900 (ERS 5900) products are an important part of this strategy, integrating Fabric Connect capabilities into a form-factor that is cost-effective, flexible, and reliable. The

ERS 5900 products can be deployed standalone, or configured as a Stackable Chassis system of up to eight units/416 ports, supported by up to 672Gbps of virtual backplane bandwidth.

Supporting modern Enterprise applications requires a flexible and highly reliable infrastructure, and the ERS 5900 products deliver against this challenge. These are highly strategic products, fit-for-purpose for conventional Routed IP connectivity requirements and future-ready for the evolving and emerging softwaredefined needs of tomorrow. Boasting equal competency for both IP- and Fabric-based networking give businesses the flexibility to satisfy all common deployment scenarios, with the added advantage of an easy transitioning between the two.

Avaya brings unique differentiation to the high-end Wiring Closet role: with a flexible, non-blocking "Stackable Chassis" architecture. The proprietary Avaya "Flexible Advanced Stacking



ERS 5900 Stackable Chassis



Rear View (demonstrating Stackable Chassis cabling)



ERS 5928GTS



ERS 5928GTS-PWR+



ERS 5928GTS-uPWR



ERS 5928MTS-uPWR



ERS 5952GTS



ERS 5952GTS-PWR+



ERS 59100GTS



ERS 59100GTS-PWR+

Technology" (FAST) protocol - implemented over dedicated Quality-of-Service aware interfaces - enables a resilient, high-performance solution that leverages a shortest path algorithm to minimizes transit hops in a multi-device configuration by providing active-active bi-directional traffic flows. The Avaya Stackable Chassis technology can offer the same performance, resiliency, and ease of serviceability attributes of a traditional Chassis solution, but at a lower, pay-as-you-grow price point. Notable is the ability to swap-out an individual failed unit without the requirement to pre- or post-stage operating system software or configuration; providing equivalency to module replacement for a modular Chassis system.

The ERS 5900 products are purpose-built to support the demands of today's dynamic Wiring Closet with high-density, full-featured Gigabit Ethernet. It alleviates infrastructure complexity and reduces operational burden with a truly scalable and strategic architecture; it is designed to deliver a high-performance Enabled Edge solution that fully optimizes investments in next-generation application software.

Leveraging both next-generation hardware and software technology provides a solution that is ready to support both today's requirements and tomorrow's emerging needs. The ERS 5900 products enable business to future-proof with a highly software-definable network virtualization solution.

Product Overview

Broadly speaking, the Ethernet Routing Switch 5900 products provide a mix of Gigabit Ethernet ports for edge access and multiple 10 Gigabit Ethernet ports for network uplinks. Model variants that support Power-over-Ethernet are also available, and all models support optional highly available AC power (up to two field-replaceable Power Supplies, or up to four for the 59100 models) and cooling (two field-replaceable Fan modules, or four for the 59100 models).

Three different port configurations are available: 28-port, 52-port, and 100-port models, and each configuration is available in either a PoE or non-PoE format. Additionally, there are 28-port versions that support the new Four-Pair (Universal) PoE capability.

The product range includes the following models:

- ERS 5928GTS 24 x Gigabit RJ45, plus 4 x 10 Gigabit SFP+
- ERS 5928GTS-PWR+ 24 x Gigabit RJ45 with PoE/PoE+, plus 4 x 10 Gigabit SFP+
- ERS 5928GTS-uPWR 24 x Gigabit RJ45 with Universal PoE, plus 4 x 10 Gigabit
- ERS 5928MTS-uPWR 24 x Gigabit/2.5 Gigabit RJ45 with Universal PoE, plus 4 x 10 Gigabit SFP+ (Please note: this model supports Full-Duplex mode only on access ports)
- ERS 5952GTS 48 x Gigabit RJ45, plus 4 x 10 Gigabit SFP+
- ERS 5952GTS-PWR+ 48 x Gigabit RJ45 with PoE/PoE+, plus 4 x 10 Gigabit SFP+
- ERS 59100GTS 96 x Gigabit RJ45, plus 4 x 10 Gigabit SFP+
- ERS 59100GTS-PWR+ 96 x Gigabit RJ45 with PoE/PoE+. plus 4 x 10 Gigabit SFP+

The product's proven design leverages a sophisticated chipset from the Industry's leading supplier, featuring high-performance switching and frame forwarding. The switching core is designed to deliver wire-speed capabilities, with a fully integrated ASIC architecture that facilitates hardwareassisted feature execution.

The 28-port models - ERS 5928GTS, ERS 5928GTS-PWR+, and ERS 5928GTS-uPWR - feature 24 1000BASE-T Gigabit Ethernet access ports with RJ45 interfaces; these ports also support 10/100Mbps connectivity. Four SFP+ interfaces provide for network uplink connectivity, and these ports support both Gigabit and 10 Gigabit pluggable transceivers. The new ERS 5928MTS-uPWR model features 24 1000BASE-T Gigabit/2.5 Gigabit Ethernet access ports with RJ45 interfaces; these ports also support 100Mbps connectivity. As with all other ERS 5900 model, four SFP+ interfaces provide for network uplink connectivity, and these ports support both Gigabit and 10 Gigabit pluggable transceivers.

The 52-port models - ERS 5952GTS and ERS 5952GTS-PWR+ - feature 48 1000BASE-T Gigabit Ethernet access ports with RJ45 interfaces; these ports also support 10/100Mbps connectivity. Four SFP+ interfaces provide for network uplink connectivity, and these ports support both Gigabit and 10 Gigabit pluggable transceivers.

The 100-port models - ERS 59100GTS and ERS 59100GTS-PWR+ - feature 96 1000BASE-T Gigabit Ethernet access ports with RJ45 interfaces; these ports also support 10/100Mbps connectivity. Four SFP+ interfaces provide for network uplink connectivity, and these ports support both Gigabit and 10 Gigabit pluggable transceivers.

Importantly, all ERS 5900 models feature two dedicated Stackable

Chassis interfaces mounted on the rear: one a bi-directional uplink and the other a bi-directional downlink. These QoS-aware high-speed connections enable a resilient, high-performance hardware virtualization solution, leveraging a shortest path algorithm to minimizes transit hops in a multi-device configuration and supporting activeactive bi-directional traffic flows.

The Power-over-Ethernet models - ERS 5928-PWR+, ERS 5952GTS-PWR+, and ERS 59100GTS-PWR+ support full Standards-compliant IEEE 802.3af/802.3at PoE/PoE+ delivering up to 30W per port to power IP Phones. Wireless Access Points, networked IP CCTV Cameras, and other converged devices.

The ERS 5928GTS-uPWR and 5928MTS-uPWR models support the Four-Pair PoE initiative (a.k.a. Universal PoE), enabling up to 60 Watts of power on access ports. This capability can be used to support a greater range of high-power devices through a single standard Ethernet cable, such as premium telepresence systems, multiradio Wireless Access Points, VDI Thin Clients and monitors, trading turrets used in the financial vertical. downstream compact Switches, and even PoE-power smart lighting systems. Four-Pair PoE is seen as a key enabling technology for the Internet of Things. These models also support conventional 802.3af/802.3at PoE/ PoE+.

These PoE models utilize fieldreplaceable, hot-swappable power supplies that can each deliver up to 1,400W (or 1,000W when connected to 110VAC), while the non-PoE models utilize a version that is rated at 450W. A portion of power is reserved for system operation: 200W for the 28- and 52-port models, and 400W for the 96-port model.

BENEFITS

- Always-On
- Convergence-Ready
- Powerful
- Highly Secure
- Flexibility and Agility
- Fabric-Enabled
- Energy Efficient

FEATURES & CAPABILITIES

- Non-blocking, wire-speed
- Integrated design
- Feature-rich
- Avaya Stackable Chassis
- Avaya Fabric Connect
- Fabric Attach
- Advanced IPv4 & IPv6 Routing
- Field-replaceable Power & Fans
- Front-to-Back & Back-to-Front airflow options

PoE power budgets are as follows:

- ERS 5928GTS-PWR+ supports all 24 access ports at up to 30W, even with a single PSU
- ERS 5928GTS-uPWR/5928MTSuPWR can support all 24 access ports at up to 60W with two active **PSUs**
- ERS 5952GTS-PWR+ can support all 48 access ports at up to 30W with two active PSUs
- ERS 59100GTS-PWR+ can support all 96 access ports at up to 30W with four active PSUs

(Note: PoE+ Switch ports deliver up to 32.4 watts, with the "extra" 2.4W provided to compensate for potential line loss, and ensuring that a full 30W is available to the Powered Device)

Benefits

The ERS 5900 products add significant flexibility to an Enterprise's networking capability. Deployed with other Avaya or third party Ethernet Switch devices, the ERS 5900 products provide high-capacity, highperformance connectivity solution for high-end Wiring Closet applications.

The ERS 5900 products deliver key Enterprise-class benefits, including:

- Always-On Stackable Chassis delivers a best-in-class highavailability solution, featuring hotswappable unit replacement and integrated power and cooling redundancy.
- Convergence-Ready flexible support for PoE/PoE+, Universal PoE optimized for high-definition video surveillance, true plugand-play capabilities for communications, collaboration, and engagement deployments, and advanced QoS capabilities.

- Powerful wire-speed performance. truly scalable virtual backplane capabilities, delivering up to 672Gbps of throughput to support large-scale deployments.
- Highly Secure Standards-based 802.1X Network Access Control can also be integrated with Avaya's award-winning Identity Engines technology for centralized, policybased authenticated network access.
- Flexibility and Agility best-in-class pay-as-you-grow scalability, versatile PoE/PoE+/Universal PoE support, multiple 1/10 Gigabit network uplinks and flexible airflow.
- Fabric-Enabled supporting Avaya's Fabric Connect technologies to empower a seamless transition to an agile, software-defined virtualized networking solution.
- Energy Efficient focusing on endto-end energy efficiency, dynamic Energy Saver further reduces power consumption for both the Ethernet Switch and IP Phones without impacting service availability.

System Compatibility

From an operating system software perspective, the ERS 5900 products were introduced via the 7.0 release; therefore, this is the minimum level of system software required to operate the Switches¹. As of the 7.1 release, both the ERS 5900 and ERS 4900 Series products are supported by the same BOSS software image. This delivers harmonized feature availability - where applicable - across both the mainstream and premium product lines.

The latest BOSS 7.4 release supports the introduction of the new ERS 5928MTS-uPWR model, plus support for the 10GBASE-T SFP+ Transceiver.

¹The ERS ERS 5928MTS-uPWR model requires a minimum of BOSS 7.4 to

Product Details

Features & Capabilities

- · Non-blocking, wire-speed switching architecture.
- Integrated design that is optimized for low latency and high Quality-of-Service (including QoS-aware Stackable Chassis interfaces).
- Feature-rich support for conventional VLAN, Private VLAN, Multi-Link Trunking, Spanning Tree technologies.
- Avaya Stackable Chassis technology supporting scalability up to 8 units/416 ports, and Auto-Unit Replacement for Software Image and Configuration.
- Avaya Fabric Connect technology supports L2 Virtual Service Networks (VSNs). IP Shortcut Routing, IP Multicast-over-Fabric Connect, ETREE, and Fabric Attach.
- IP Routing includes support for Static, RIP/RIPng, OSPF, ECMP, VRRP, Routing Polices and Source-based Routing, and PIM-SM/PIM-SSM.

High Availability Power & Cooling

- · High-availability field-replaceable, hot-swappable AC internal Power Supplies, available in 450W and 1,400 (1,000W for 100-120V) ratings for - respectively - non-PoE and PoE applications.
- High-availability field-replaceable Fan Trays available in Front-to-Back or Back-to-Front airflow configuration to match PSUs.



Warranty

- Lifetime Hardware Warranty. providing Next Business Day shipment of replacement hardware.
- · Lifetime Software Warranty, providing access to Updates and Upgrades.
- Lifetime Basic Technical Support.
- 90-Day Post-Purchase Advanced Technical Support.

Software Licensing

- Base Software License, included with hardware purchase, enables most features with the exception of those specifically noted and enabled by the Advanced Software License.
- Advanced Software License, an optional accessory, enables the following features: OSPF, VRRP, ECMP, PIM-SM/PIM-SSM, IPv6 Routing, (IP Static Routing, RIPng) and IP Shortcut Routing.

Country of Origin

• China (PRC) for all models with the exception of the 5928MTS-uPWR which is sourced from Taiwan (ROC).

Additional Information

For further information about Avava Ethernet Switches, and the complete Avaya Networking portfolio, please visit www.avaya.com.

Selected Specifications General · Physical Connectivity: • Frame Forwarding (Full Duplex): • Frame Length: 64 to 1518 Bytes (Untagged), - 1000BASE-T Access Ports (supporting both - 190.5Mpps for 28-port models 64 to 1522 Bytes (Tagged) Half- and Full-Duplex)2 (except 5928MTS-uPWR) Jumbo Frame: up to 9,216 Bytes - 10GBASE-SFP+ Network Uplink Ports - 298Mpps for 5928MTS-uPWR model (802.1Q Tagged) • Switching Fabric (Full-Duplex): - 262Mpps for 52-port models Stackable Chassis Throughput: 84Gbps - 212Gbps for 28-port models 405Mpps for 100-port models (Full-Duplex) per Switch, up to 672Gbps (except 5928MTS-uPWR) Nominal Latency: 3.5 microseconds for 64 - 284Gbps for 5928MTS-uPWR model Byte packets 260Gbps for 52-port models Nominal Jitter: 0.84 microseconds for 64 Byte - 356Gbps for 100-port models packets Layer 2 • MAC Address: up to 32,000 • MLT/LACP Groups: 32 • 802.1X Clients: up to 768 Links per MLT/LACP Group: 8 • Port-based VLANs: 1,024 • LLDP Neighbors: up to 800 • MSTP Instances: 8 · DHCP Snooping Entries: up to 1,024 • Avaya SLPP Instances: 128 Layer 3 IPv4 Routing Services • ARP Entries: 4,096 • IP Static Routes: 512 • OSPF Areas: 4 • ECMP Groups: 256 Static ARP Entries: 256 · RIP Interfaces: up to 64 • RIP Routes: up to 4,096 • IP Interfaces: 256 • Paths per ECMP Group: 4 · OSPF Interfaces: up to 64 • VRRP Interfaces: 64 · CLIP Interfaces: 16 · OSPF Routes: up to 4,096 • IP Route Policies: 128 IP Routes: to up 4.096 Layer 3 IPv6 Routing Services • IPv6 Management Tunnels: 4 DHCPv6 Guard • IPv6 Interfaces: 256 IPv6 Routes: up to 2,048 • IPv6 Data Tunnels: 8 MLDv1/v2 Snooping • IPv6 Static Neighbors: 256 • IPv4/IPv6 Dual Stack • Duplicate Address Detection & Snooping • CLIP Interfaces: 16 · Router Advertisement Guard · Neighbor Unreachability Detection & Filtering Multicast • IGMP Enabled VLANs: 256 • IP Multicast Groups: 1,024 • PIM-SSM Static Channels: 512 • PIM Passive Interface: 60 • PIM Active Interfaces: 4 Fabric Connect • IEEE 802.1aq/RFC 6329 Shortest Path · Fabric Attach modes: Server, Proxy, • BEB Nodes per VSN: up to 750 (soft ceiling) Bridging with Avaya extensions & Standalone Proxy • L2 Virtual Service Networks: 1,000 • BCB/BEB Nodes per Region: 1,000 • MAC Addresses: 32,000 • IP Shortcut Routes: 2,000 • IS-IS Adjacencies: 4 QoS & Filtering • Priority Queues: 8 • Ingress and Egress ACLs: up to 256 per · ACL Filters: up to 4,096 Precedence, up to 16 Precedence instances Operations & Management • Port- and VLAN-based Mirroring • IPFIX Sampled Flows: up to 100,000 • Enterprise Device Manager GUI, on-box • Mirroring Instances: 4 · sFlow Flow Sampling & off-box Auto-MDIX Detection Support Transceivers³ • 10GBASE-T SFP+, up to 100m over • 10GBASE-LR/LW SFP+, up to 10km over SMF • 10GBASE-CX Direct-Attach Cable, CAT6a UTP up to 3m over Twinax • 10GBASE-BX10 SFP+, up to 10km over SMF 10GBASE-LRM SFP+, up to 220m 10GBASE-CX Direct-Attach Cable, • 10GBASE-ER/EW SFP+, up to 40km over SMF over FDDI-grade MMF up to 5m over Twinax • 10GBASE-ZR/ZW SFP+, up to 80km over SMF 10GBASE-SR/SW SFP+, up to 300m 10GBASE-CX Direct Direct-Attach Cable, over MMF up to 10m over Twinax

Physical Specifications (Weights include Base Unit with single Power Supply)				
1RU models	Height: 44 mm	Width: 442 mm	Depth: 488 mm	Weight: 7.6-8.6 kg
2RU models	Height: 88.5 mm	Width: 442 mm	Depth: 488 mm	Weight: 11.9-12.9 kg

 $^{^2}$ The ERS 5928MTS-uPWR model supports 100Mbps/1000Mbps/2.5Gbps and Full-Duplex operation on access ports; 10Mbps and/or Half-Duplex is not supported.

³A mix of both conventional and DDI Transceivers are supported. Additionally, SFP+ sockets are also capable of supporting a wide range of 1 Gigabit Ethernet Transceivers. Pease refer to the product documentation for full details and a complete listing of all specifications and compliance.

Power Specifications (Base Unit fully equipped with Power Supplies)		
ERS 5928GTS	 Up to 77.2W, up to 0.43A, and up to 263.4BTU/hr @ 200-240VAC Up to 77.4W, up to 0.7A, and up to 264.0BTU/hr @ 100-110VAC 52.2W power consumption at idle, and 56.7W under typical traffic load 	
ERS 5928GTS-PWR+	 Up to 846.0W, up to 3.77A, and up to 429.9BTU/hr @ 200-240VAC Up to 858.0W, up to 7.52A, and up to 467.4BTU/hr @ 100-110VAC 47.8W power consumption at idle, and 52.0W under typical traffic load (excluding PoE draw) 	
ERS 5928GTS-uPWR	 Up to 1,616.0W, up to 7.1A, and up to 588.0BTU/hr @ 200-240VAC Up to 1,662.0W, up to 14.5A, and up to 744.0BTU/hr @ 100-110VAC 46.0W power consumption at idle, and 50.7W under typical traffic load (excluding PoE draw) 	
ERS 5928MTS-uPWR	 Up to 1,693.3W, up to 8.0A, and up to 872.4BTU/hr @200-240VAC Up to 1,810.2W up to 15.8A, and up to 1,237.5BTU/hr @100-110VAC 114.49W power consumption at idle, and 119.0W under typical traffic load (excluding PoE draw) 	
ERS 5952GTS	 Up to 88.6W, up to 0.46A, and up to 302.3BTU/hr @ 200-240VAC Up to 90.0W, up to 0.78A, and up to 307.1BTU/hr @ 100-110VAC 60.4W power consumption at idle, and 69.0W under typical traffic load 	
ERS 5952GTS-PWR+	 Up to 1,662.0W, up to 7.12A, and up to 600.5BTU/hr @ 200-240VAC Up to 1,665.0W, up to 14.58A, and up to 754.1BTU/hr @ 100-110VAC 56.5W power consumption at idle, and 65.6W under typical traffic load (excluding PoE draw) 	
ERS 59100GTS	 Up to 182.6W, up to 1.0A, and up to 623.1BTU/hr @200-240VAC Up to 183.9W, up to 1.6A, and up to 627.5BTU/hr @100-110VAC 92.0W power consumption at idle, and 111.0W under typical traffic load 	
ERS 59100GTS-PWR+	 Up to 3,218.9W, up to 14.1A, and up to 1,099.0BTU/hr @200-240VAC Up to 3,327.2W, up to 29.0A, and up to 1,473.9BTU/hr @100-110VAC 97.1W power consumption at idle, and 117.7W under typical traffic load (excluding PoE draw) 	

Environmental Specifications			
Operating Temperature:	re: 0°C to 50°C (32°F to 122°F); the 5928MTS-uPWR model supports 0°C to 45°C in Back-to-Front airflow configuration		
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)		
Operating Humidity:	9 Humidity: 0 to 95% maximum relative humidity, non-condensing; 0 to 85% for the 5928MTS-uPWR		
Storage Humidity:	10 to 90% maximum relative humidity, non-condensing; 10 to 85% for the 5928MTS-uPWR		
Operating Altitude:	0 to 3,048m (0 to 10,000ft) maximum Storage altitude: 0 to 12,192m (0 to 40,000ft) maximum		
Acoustic Noise:	Less than 52dbA at 25°C Less than 60dbA at 50°C		

Safety Agency Approvals

- IEC 60950 International CB Certification
- EN 60950-1 Europe Safety (CE): CB Scheme Certification with Member Deviations
- UL 60950-1 USA Safety
- CSA-C22.2, #60950-1 Canada Safety
- NOM Mexico Safety
- EN 60950-1 Japan Safety
- Anatel Brazilian Safety
- ACMA-RCM Australia Safety
- Customs Union/EAC Safety of Low-Voltage **Equipment Certification**
- CCC & MIIT China Safety
- CNS 14336-1 Taiwan BSMI Safety
- UL 1069 Hospital Signaling and Nurse Call Equipment (relevant to PWR units only)

Electromagnetic Emissions & Immunity

- CISPR 22 International EMC Emissions
- CIRPR 24 International EMC Immunity
- FCC part 15B, Class A USA EMC Emissions
- ICES-003 Class A Canadian EMC Emissions
- VCCI Japan EMC Emissions
- EN 55022 Class A, CISPR 22 European EMC Emissions (CE)
- EN 55024, CISPR 24 including EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8 & 4-11 European EMC Immunity (CE)
- ACMA-RCM Mark
- Australia EMC Emissions
- Anatel Brazilian EMC Certification
- Customs Union/EAC EMC Certification
- CCC & MIIT China EMC Certification
- KC mark: EMI & EMS Korean EMC Certification
- CNS 13438 Taiwan BSMI EMC

MTBF Values (Base Unit with single Power Supply)

- ERS 5928GTS up to 248,756 hours (28.40 years)
- ERS 5928GTS-PWR+ up to 246,741 hours (28.12 years)
- ERS 5928GTS-uPWR up to 254,165 (29.01 years)
- ERS 5928MTS-uPWR up to 243,895 (27.84 years)
- ERS 5952GTS up to 241,078 hours (27.52 years)
- ERS 5952GTS-PWR+ up to 239,731 hours (27.37 years)
- ERS 59100GTS up to 150,386 hours (17.67 years)
- ERS 59100GTS-PWR+ up to 145,094 hours (16.56 years)

⁴ The 5928MTS-uPWR is offered only in TAA-compliant "GS" format. It should be noted that all ERS 5900 models are also optionally available worldwide - in TAA-compliant format; please contact your Avaya Reseller for additional information.

About Avaya

Avaya is a leading, global provider of customer and team engagement solutions and services available in a variety of flexible on-premise and cloud deployment options. Avaya's fabricbased networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information, please visit www.avaya.com.

Ordering Information

Part Code	Description			
AL5900?1*-E6	ERS 5928GTS 28-port Ethernet Switch, supporting 24 x 1000BASE-T & 4 x 10GBASE-SFP+			
	ports. Includes single 450W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?2*-E6	ERS 5928GTS-PWR+ 28-port Ethernet Switch, supporting 24 x 1000BASE-T PoE/PoE+ & 4			
	x 10GBASE-SFP+ ports. Includes single 1,400W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?3*-E6	ERS 5952GTS 52-port Ethernet Switch, supporting 48 x 1000BASE-T & 4 x 10GBASE-SFP+			
	ports. Includes single 450W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?4*-E6	ERS 5952GTS-PWR+ 52-port Ethernet Switch, supporting 48 x 1000BASE-T PoE/PoE+ & 4			
	x 10GBASE-SFP+ ports. Includes single 1,400W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?5*-E6	ERS 59100GTS 100-port Ethernet Switch, supporting 96 x 1000BASE-T & 4 x 10GBASE-			
	SFP+ ports. Includes single 450W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?6*-E6	ERS 59100GTS-PWR+ 100-port Ethernet Switch, supporting 96 x 1000BASE-T PoE/PoE+ & 4 x 10GBASE-SFP+ ports. Includes single 1,400W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?7*-E6	ERS 5928GTS-uPWR 28-port Ethernet Switch, supporting 24 x 1000BASE-T Universal PoE ports & 4 x 10GBASE-SFP+ ports. Includes single 1,400W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL5900?9*- E6GS ⁴	ERS 5928MTS-uPWR 28-port Ethernet Switch, supporting 24 x 1000BASE-T/2.5GBASE-T Universal PoE ports & 4 x 10GBASE-SFP+ ports. Includes single 1,400W AC Power Supply, Fan Trays, Power Cord, & Base Software License.			
AL7000?0B-E6	450W 100-240V AC Power Supply for ERS 5900, Back-to-Front Airflow.			
AL7000?0F-E6	450W 100-240V AC Power Supply for ERS 5900, Front-to-Back Airflow.			
AL1905?3B-E6	1,000-1,400W 100-240V AC Power Supply for ERS 5900 PoE, Back-to-Front Airflow.			
AL1905?3F-E6	1,000-1,400W 100-240V AC Power Supply for ERS 5900 PoE, Front-to-Back Airflow.			
AL190506B-E6	450W DC Power Supply for ERS 5900, Back-to-Front Airflow.			
AL190506F-E6	450W DC Power Supply for ERS 5900, Front-to-Back Airflow.			
AL5900BTF-E6	Fan Tray for ERS 5900, Back-to-Front Airflow.			
AL5900FTB-E6	Fan Tray for ERS 5900, Front-to-Back Airflow.			
AA1404037-E6	ERS 5900 Series Stacking Cable, 0.5 metre.			
AA1404029-E6	ERS 5900 Series Stacking Cable, 1.0 metre.			
AA1404031-E6	ERS 5900 Series Stacking Cable, 3.0 metre.			
AA1404032-E6	ERS 5900 Series Stacking Cable, 5.0 metre.			
380221	ERS 5900 Advanced Software License. Enables additional functionality including: OSPF, VRRP, ECMP, PIM-SM/PIM-SSM, IPv6 Routing, and IP Shortcut Routing.			
Where applicable Cord, or DC Powe	the seventh character (?) of the Product Code is replaced to indicate the required AC Power supply option:			
А	No AC Power Cord option.			
В	Includes European "Schuko" AC Power Cord option, common in Austria, Belgium, Finland, France, Germany, Netherlands, Norway and Sweden.			
С	Includes AC Power Cord used in UK and Ireland.			
D	Includes AC Power Cord used in Japan.			
E	Includes AC Power Cord used in North America.			
F	Includes AC Power Cord used in Australia and New Zealand.			
0	DC Power Supply option			
The ninth character (*) of the Product Code is replaced to select the required directional airflow; this selection will apply to both Power Supply and Fan Trays:				
В	Back-to-Front			
F	Front-to-Back			
Х	Supplied without Power Supply or Fan Trays, suitable as a spare or replacement base unit and capable of operating as either B2F or F2B.			

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