

## ES0154P

54-Port Layer 2+ Gigabit Ethernet Managed Switch with PoE



The ES0154P 54-Port Layer 2+ Gigabit Ethernet Managed Switch is ideal for installation with ATEN KVM over IP products. It simplifies the process of building OT infrastructure with the ATEN KVM over IP series by eliminating the complexities of setup. It provides a high-performance 54-port configuration, a complete array of L2+ features, and advanced functionalities including Layer 3 static route, DHCP server, IPv6 support, and LLDP, making it a versatile solution for enhancing network performance. It offers a combination of SFP28 (fiber) and RJ-45 (copper) ports for servicing a range of network needs.

The ES0154P supports 6 (1G/10G/25G) SFP28, 48 (10M/100M/1G) RJ-45 with PoE+ (Support 802.3at/af) ports, and PoE++ (Support 802.3bt) ports (41-48 ports only). The ES0154P is equipped with Power over Ethernet (PoE) functionality, featuring a substantial 740 Watts power budget distributed across its 48 RJ-45 ports. This eliminates the necessity for external power adapters and leads to a substantial reduction in power configuration expenses.

Deploying the ES0154P is quick and hassle-free. Its plug-and-play design eliminates the need for software installation or device configuration. Just connect the transmitters and receivers to the ES0154P using Cat 5e/6 cables. With a full range of functions to help with optimizing network efficiency, manageability and reliability for their network environment, the ES0154P serves as an ideal network switch solution. It is particularly valuable in applications where connected devices play a critical role in network operation, including OT infrastructure for both SMBs and enterprises.

## Compatible SFP+ Modules for ES Series Ethernet Switches

| ATEN      | 2A-141G                                             | 2A-142G                                               |
|-----------|-----------------------------------------------------|-------------------------------------------------------|
|           | (10 Gbps Duplex LC 850nm 300m, Multi Mode Fiber)    | (10 Gbps Duplex LC 1310nm 10km, Single Mode Fiber)    |
| Edge Core | ET7302-SR                                           | ET7302-LR                                             |
|           | (25.78 Gbps Duplex LC 850nm 100m, Multi Mode Fiber) | (25.78 Gbps Duplex LC 1310nm 10km, Single Mode Fiber) |
| FS        | SFP28-25GSR-85-I                                    | SFP28-25GLR-31-I                                      |
|           | (25.78 Gbps Duplex LC 850nm 100m, Multi Mode Fiber) | (25.78 Gbps Duplex LC 1310nm 10km, Single Mode Fiber) |

## Features

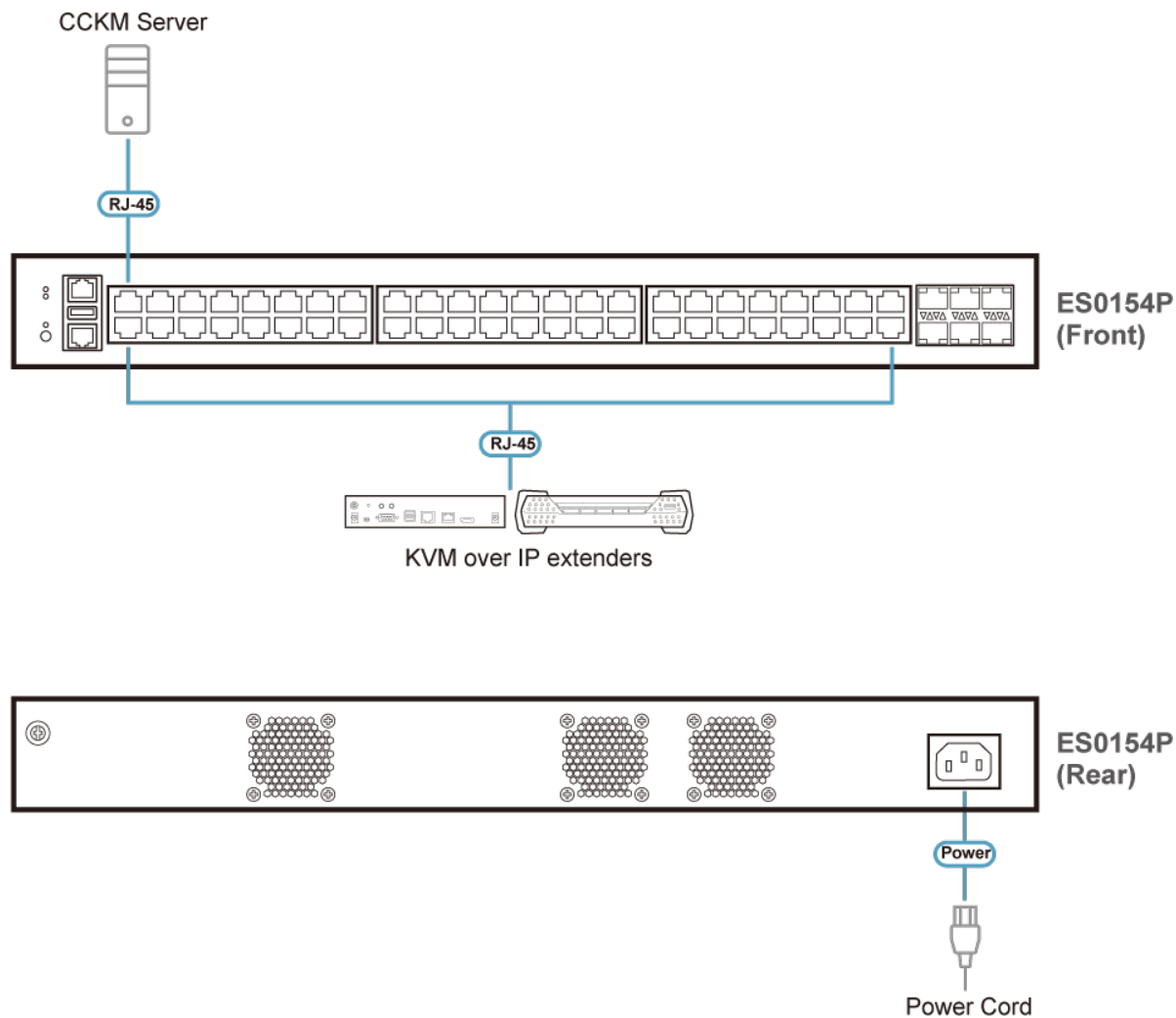
- Supports plug-and-play with KE, VE89 series devices
- Supports 48 Gigabit Ethernet ports and 6 SFP28 uplink ports (up to 25Gbps)
- High-performance Gigabit Ethernet L2+ access switch with 396 Gbps switching capacity – significantly improve the responsiveness of applications and file transfer times
- 802.3af PoE / 802.3at PoE+ / 802.3bt PoE++ (41-48 ports only) port configuration and scheduling
- Supports IGMP v1/v2/v3 Snooping and IGMP v1/v2 Querier
- Supports IGMP Snooping Fast Leave
- Supports Flow Control
- Comprehensive QoS – allowing the marking, classification, and scheduling of up to four traffic types across the network
- Enhanced Security – Port Security limits the total number of devices using a switch port and protects against MAC flooding attacks
- Supports IEEE 802.1w Rapid Spanning Tree Protocol – ensuring a faster recovery from failed links and enhancing overall network stability and reliability
- Supports IPv4, IPv6

## Specification

|                                       |                                                                                                                                                                                                                                                               |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectors                            |                                                                                                                                                                                                                                                               |
| RJ-45 10/100/1000 Ports               | 48                                                                                                                                                                                                                                                            |
| SFP28 Uplink Ports                    | 6                                                                                                                                                                                                                                                             |
| Console Ports                         | 1 x RJ45                                                                                                                                                                                                                                                      |
| Remote Console                        | 1 X RJ45                                                                                                                                                                                                                                                      |
| USB Port                              | 1                                                                                                                                                                                                                                                             |
| Performance                           |                                                                                                                                                                                                                                                               |
| Switching Capacity                    | 396 Gbps                                                                                                                                                                                                                                                      |
| Forwarding Rate                       | 295 Mpps                                                                                                                                                                                                                                                      |
| Flash Memory                          | 256 MB                                                                                                                                                                                                                                                        |
| DRAM                                  | 1GB                                                                                                                                                                                                                                                           |
| MAC Address Table Size                | 32K                                                                                                                                                                                                                                                           |
| Jumbo Frames                          | 10 KB                                                                                                                                                                                                                                                         |
| Auto-negotiation                      | Yes                                                                                                                                                                                                                                                           |
| Maximum Input Power Rating            | 100-240V AC,50-60Hz                                                                                                                                                                                                                                           |
| Power Consumption                     | 835W (MAX) 2BTU/h<br>849BTU/h<br><br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Power over Ethernet (PoE)             |                                                                                                                                                                                                                                                               |
| Standard compliance                   | 802.3af PoE / 802.3at PoE+ / 802.3bt PoE++ (41-48 ports only)                                                                                                                                                                                                 |
| Number of Ports That Support PoE/PoE+ | 48 ports                                                                                                                                                                                                                                                      |
| Total PoE Power budget                | 740W                                                                                                                                                                                                                                                          |
| Max. PoE Power budget per port        | PoE : 15.4W/ PoE+: 30W / PoE++: 90W(41-48 ports only)                                                                                                                                                                                                         |
| Environmental                         |                                                                                                                                                                                                                                                               |
| Operating Temperature                 | -5–45°C                                                                                                                                                                                                                                                       |
| Storage Temperature                   | -40–70°C                                                                                                                                                                                                                                                      |
| Humidity                              | 5%–95% RH, Non-condensing                                                                                                                                                                                                                                     |
| Physical Properties                   |                                                                                                                                                                                                                                                               |
| Rack Space                            | 19"                                                                                                                                                                                                                                                           |
| Housing                               | Metal                                                                                                                                                                                                                                                         |
| Weight                                | 5.42 kg ( 11.94 lb )                                                                                                                                                                                                                                          |
| Dimensions (L x W x H)                | 44.20 x 42.00 x 4.36 cm<br>(17.4 x 16.54 x 1.72 in.)                                                                                                                                                                                                          |
| Carton Lot                            | 1 pc                                                                                                                                                                                                                                                          |
| Note                                  | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.                                                                                                                               |

Diagram

► Diagram



**ATEN International Co., Ltd.**

3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan  
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767  
 www.aten.com E-mail: marketing@aten.com



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