

# SW-505-16P-R

16 PoE+ Ports and 2 Gigabit RJ45/SFP Combo Ports with 185W of Total Power Budget, and Layer 2 and Layer 3 Functionality Optimized for AV over IP Applications.

## OVERVIEW

Designed to support AV-over-IP (AVoIP) applications, the SW-505-16P-R includes 16 1-Gigabit PoE+ Ethernet ports, two non-powered Ethernet ports, and two 1-Gigabit SFP expansion ports (SFP and non-powered ethernet ports cannot be used at the same time). Both 1 Gb SFP ports can be aggregated for a connection speed of up to 2 Gb.

The 16 PoE+ ports deliver both gigabit data and power over a single cable to 802.11af/at-compliant devices, with a maximum of 30W per port. For separately powered devices, these ports deliver network connectivity only. The total power budget is 185W for all PoE+ ports combined.

The advanced Layer 2/Layer 3 features a refreshed easy-to-use management interface to simplify configuration and make this switch ideal for use in single-switch AVoIP environments. Setup of IGMP/Multicast on a per-port basis is easy, improving the setup and reliability of running audio and video over the network simultaneously.



## FEATURES

### CONFIGURATION

- Refreshed, simplified user interface
- Supports inbound (ingress) ACL filtering
- Layer 2+ and Layer 3 static routing
- Multicast/IGMP snooping and querying feature
- Per port unregistered flooding
- 36Gbps switching capacity
- Dante and AES67 compatibility
- AV-over-IP compatible
- Easy port aggregation: 1 Gbps SFP ports are aggregable up to 2 Gbps
- 802.1Q VLAN and QoS support including DCSP

### POWER

- 185W total power budget
- 16 PoE+ powered capable ports
- PoE Monitoring: Auto-Recovery and Power Scheduling
- PoE stays active with soft reboot (when configured)
- Dynamic PoE allocation

### INSTALLATION

- Standard 19-inch rack mount
- Front-facing, selectable blue or green LEDs
- Rear-facing ports
- Low noise, variable speed fans
- Integrated port activity LEDs for easier diagnostics
- Luxul ProWatch support
- 3-year warranty
- Free lifetime phone support

## PRODUCT INFORMATION

PART #	DESCRIPTION
SW-505-16P-R	16 PoE+   2 Combo RJ45/SFP Ports - 2 Gigabit L2/L3 Managed Switch

# SW-505-16P-R

## SPECIFICATIONS

HARDWARE FEATURES	
<b>PROTOCOLS AND STANDARDS</b>	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af/ at, IEEE 802.3x, IEEE 802.3ad, IEEE 802.3az, IEEE 802.1ab, IEEE 802.1d, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1v, IEEE 802.1w, IEEE 802.1X
<b>FORWARDING CAPACITY</b>	26.785 Mpps (64 byte packets)
<b>SWITCHING CAPACITY</b>	36Gbps
<b>MAC TABLE</b>	Up to 8K (32768) MAC addresses
<b>JUMBO FRAMES</b>	Frame sizes up to 9216 Bytes
<b>INTERFACE OPTIONS</b>	RJ45: 10BASE-T, 100BASE-T, 1000BASE-T SFP: up to 1Gbps
<b>PoE MONITORING</b>	Auto-Recovery, Power Scheduling, PoE stays active with soft reboot
<b>VLAN</b>	802.1Q max 4094 VLANs & VLAN Trunking Supports 1 Management VLAN
<b>SURGE PROTECTION</b>	RJ-45 port surge protection tested to 6KV per EN61000-4-5
<b>QUALITY OF SERVICE (QoS)</b>	8 Hardware Queues Queue Scheduling: Strict Priority and Weighted Round Robin (WRR) VLAN priority based Layer 2 CoS QoS Port based Layer 3 DSCP QoS Port based bandwidth control ACL Ingress Filtering
<b>NETWORK DATA TRANSFER RATE</b>	Ethernet: 10Mbps (Half-duplex), 20Mbps (Full-duplex) Fast Ethernet: 100Mbps (Half-duplex), 200Mbps (Full-duplex) Gigabit Ethernet: 1000Mbps (Half-duplex), 2000Mbps (Full-duplex) SFP: 1 Gbps
<b>MULTICAST SUPPORT</b>	IGMP Snooping, Querier, Per Port Unregistered Flooding, Snooping and Querier available on each VLAN, Port statistics allow users to troubleshoot IGMP
<b>LED</b>	Per Unit: System, Link/Act or PoE status Per Port: Link/Activity and POE
<b>PORT COUNT</b>	16 PoE+, 2 Combo RJ45/SFP 1Gb ports
<b>POWER BUDGET</b>	185W, Configurable as statically assigned or dynamically allocated Up to 30W per port
<b>MAX POWER CONSUMPTION</b>	218W @ 100VAC, 212W @ 240VAC
<b>POWER SUPPLY</b>	Internal Switched Power, AC 100-240V, 50-60Hz input
<b>OPERATING TEMPERATURE</b>	32 F to 104 F (0 C to 40 C)
<b>OPERATING HUMIDITY</b>	10% to 90% (Non-condensing)
<b>DIMENSIONS LxWxH IN. (MM)</b>	17.4"x8.3"x1.75" (442 x 211 x 44mm)
<b>WEIGHT LBS (KG)</b>	6.25 (2.84)
<b>CERTIFICATIONS</b>	FCC Part 15 Class A, IC, CE-EMC, CE-LVD, CB(IEC 62368-1), RCM, VCCI, RoHS, UL, cUL, TAA, NDA, UKCA

## ADDITIONAL INFORMATION

### PACKAGE CONTENTS

- Managed PoE+ Switch
- Rack Mounting Ears
- Rubber Feet
- Power Cord

### ORDERING INFORMATION

REGION	PART NUMBER
North America	SW-505-16P-R
Australia	SW-505-16P-R-A
Europe	SW-505-16P-R-E
UK	SW-505-16P-R-U

### FREE DESIGN SERVICE

Go to [legrandav.com/CAP](http://legrandav.com/CAP) to access free design consultancy from Luxul network experts.

LEGRAND | AV COMMERCIAL BRANDS  
C2G | Chief | Da-Lite | Luxul | Middle Atlantic | Vaddio | Wiremold

SIMPLY CONNECTED | [legrandav.com](http://legrandav.com)

NORTH AMERICA 800.572.2011 801.822.5450 [av.luxul.support@legrand.com](mailto:av.luxul.support@legrand.com)

©2024 Legrand AV Inc. 230787 Rev B 12/24 Luxul is a registered trademark of Legrand AV Inc. All other brand names or marks are used for identification purposes and are trademarks of their respective owners. All patents are protected under existing designations. Other patents pending.