

## INTRODUCTION

The UltraLAN SF16PAI+2GE/1SFP-150W is a 16 port switch with 802.3af/at PoE ports as well as 1x SFP and 2x Gigabit RJ45 uplink ports. The 802.3af/at ports will auto detect and identify IEEE802.3af/at devices before supplying any voltage, therefore you do not have to worry about damaging your non-PoE equipment. Total maximum PoE budget is 150W and the maximum budget per port is 30W.

## WHAT IS AI & HOW DOES IT WORK?

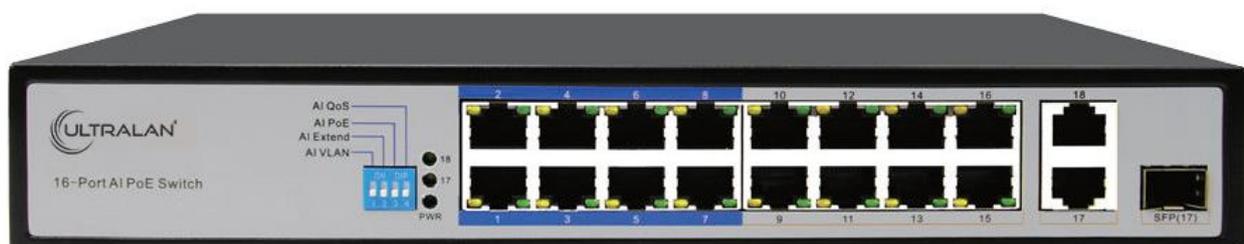
AI is an integrated intelligent port monitoring protocol, AI monitors traffic on each individual port of the switch and if no traffic passes through the interface after 120 seconds the port is automatically reset, as a result the non-responding device receives a hard reboot and comes back online automatically.

The benefits of AI are twofold: With a traditional switch the entire switch must be reset which means ALL devices go offline (including even perfectly functioning devices), it is also typically a manual process requiring human intervention which means downtime is significantly longer and in remote locations particularly cumbersome and costly. AI can significantly increase system uptime while massively reducing system downtime.

AI functionality can be activated and deactivated via a toggle switch on the device.

## AI KEY FEATURES & MODES:

-  **AI Extend:** 1-8 ports can be extended to support cable length of up to 250 meters, high quality bare copper cable is recommended (CAT5e or CAT6 for maximum distance)
-  **AI VLAN:** Isolating ports 1-16 from each other can effectively suppress network storms and improve network performance.
-  **AI QoS:** Customize application priority to improve network sensitivity. For example, video priority will take preference over other protocols
-  **AI power:** Monitor each port on the switch for traffic and if no traffic is detected power off and restart the device



## SPECIFICATIONS

<b>Standard</b>	IEEE 802.3i IEEE 802.3u IEEE 802.3x IEEE 802.3ab IEEE 802.3af IEEE 802.3at
<b>Port</b>	16x 10/100Mbps RJ45 port
	2x 10/100/1000Mbps RJ45 port
	1x Gigabit SFP port
<b>PoE</b>	16x 10/100Mbps RJ45 PoE port
	Total power budget: 150W
	Single port max. 30W
<b>Indicator</b>	18 Link/Act indicator light
	16 POE indicator light
	1 Power indicator light
<b>Performance</b>	Forwarding mode: storage forwarding
	Bandwidth: 5.2Gbps
	Packet forwarding rate: 3.868Mpps
	Support 16K MAC address list depth
<b>Input power</b>	AC 100-240V/50-60Hz
<b>Dimensions (L×W×H)</b>	285mm×180mm×44mm



UltraLAN Technology Co (Ltd) designs, customize and manufacture **best-in-class** rugged, reliable integrated network & telecom related products.