

INTRODUCTION

The UltraLAN SG08PAI+2GE-96W is a 10 port switch with 8x 802.3af/at PoE ports and 2x Gigabit RJ45 uplink port. 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 96W and the maximum budget per port is 36W.

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 1-8 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

Network Port	· 8x 10/100/1000Mbps PoE RJ45 port (port 1 - port 8)
	· 2x 10/100/1000Mbps non-POE RJ45 port (port 9 - port 10)
Transfer Rate	· 1000Mbps full Duplex
Network protocol	· IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3af IEEE802.3at
Performance	· Bandwidth: 20Gbps (no block)
	· Frame filtering and transmission rate:
	10M port maximum 14,800pps
	100M port maximum 148,800pps
LED indicator	1000M port maximum 1,488,000pps
	· Power
	· RESV
POE Pin	· LINK/ACT
	1/2/4/5(+), 3/6/7/8(-)
Power	· Max. output power single port: 36W
	· Power supply: 96W
Dimensions	· Size (LxWxH): 184mm x 94mm x 27mm
	· Weight: 1.1kg
Environment	· Operating Temperature: 0°~40°C
	· Operating Humidity: 10%~90%, Non-condensing
EMC	· CEClassB
	· FCCPart15, ClassB
	· VCCIclassB
	· C-Tick
Safety regulations	· CE/ROHS/FCC/CCC



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