

## Lantech IPES-5408T (IP67/IP43)

8 10/100TX + 4 1000T L2+ 8 PoE AT/AF Industrial Managed Switch w/ITU G.8032 Ring & PTP

EN50155 compliance & IEEE802.3AT/AF up to 30W PoE output

Optional 12V input boost to 48V output for IEEE802.3AT/AF max.90W

ITU G.8032 standard ring protection < 50ms incl. data & multicast packets; MSTP

IP67/IP43 housing; User friendly UI & Auto topology drawing

Miss-wiring avoidance & Repowered auto ring restore

Support LACP link aggregation, IGMP v3, QinQ, SSH/SSL, TACAS+, ACL, IPv6, SMS alert

Support PTPv2 <1us, relay contact & environmental monitoring

PoE management incl. Detection and Scheduling

Lantech IPES-5408T (IP67/IP43) is a high performance L2+ IP67/IP43 industrial Gigabit uplink switch with 8x10/100TX + 4 GigaT w/8 PoE AT/AF injectors by M12 connectors which provides L2 wire speed and advanced security function for connecting PD network. It delivers ITU G.8032 ring recovery less than 50ms, comprehensive QoS, IGMPv1/v2/v3 & routing, QinQ (double tag VLAN) , MVR (multicast VLAN registration) , LACP link aggregation and advanced security including ACL, TACAS+, SSH/SSL, DHCP Option 82 which are important features required in large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info to be shown on L2 map topology. The user friendly UI, innovative auto topology drawing and topology demo makes IPES-5408T (IP67/IP43) much easier to get hands-on.

IPES-5408T (IP67/IP43) supports IEEE802.3AT/AF standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, High power wireless AP etc. The advanced PoE management includes PoE detection and scheduling besides the regular PoE per port status. PoE detection can detect if the connected PD is hang up then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. The optional 12V model is able to take 12V input and boost to 48V output for PoE feeding in vehicle use with IEEE802.3AT/AF standard up to 30W per PoE port with maximum 90W output.

Lantech IPES-5408T (IP67/IP43) features ITU G.8032 ring which can be self-healed in less than 50ms up to 256 switches for ring/chain topologies which covers data & multicast packets protection. The innovative auto-Ring configurator can calculate owner and neighbor in a ring which makes ITU G.8032 ring setup never been easier. It supports MSTP that allows RSTP over Vlan for redundant links.

The IPES-5408T (IP67/IP43) also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IPES-5408T (IP67/IP43) is able to alert with the LED indicator and send out an email, traps or a SMS text. Repowered auto ring restore function ensures the switches in a ring to survive

after power breakout is back. The status can be shown in NMS when each switch is back. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

Lantech IPES-5408T (IP67/IP43) designs with redundant firmware where can survive if the primary firmware is crashed due to improper upgrading. The configuration file can also be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. The built-in watchdog design can automatically reboot the switch when CPU is found dead.

Lantech IPES-5408T (IP67/IP43) model features hardware-based PTP IEEE1588 v2 function which can allow 4x GigaT uplinks to synchronize the network with precise accuracy (under 1μs). It has RTC (Real Time Clock) inside that can keep track of time always.

The built-in environmental monitoring can detect switch overall temperature, voltage and current where can send the SNMP traps, email and SMS alert when abnormal

In case of event alarm, the IPES-5408T (IP67/IP43) will immediately send an email & SMS text message to pre-defined addresses as well as SNMP Traps out.

The Lantech IPES-5408T (IP67/IP43) is designed with redundant power supply at 24~48VDC. Featured with relay contact alarm function, the IPES-5408T (IP67/IP43) is able to connect with alarm system in case of power failure or port disconnection events. The IPES-5408T (IP67/IP43) also provides 3000V EFT and 6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet.

IPES-5408T (IP67/IP43) is designed to meet with critical network environment with IP67/IP43 aluminum enclosure and M12 connectors for water proof. It passed serious tests under extensive Industrial EMI and Safety standards. It also passed stability testing EN61373 such as Shock, and Vibration. For more usage flexibilities, IPES-5408T (IP67/IP43) supports wide operating temperature from -40°C to 75°C.

