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PD64004AH

4-PORT HPoE PSE MANAGER

DESCRIPTION

PD64004AH is a four-port, mixed-signal, high-voltage High Power over Ethernet PSE Manager. The IC allows the detection of IEEE 802.3af-2003 powered devices, ensuring safe power feeding and removal over Ethernet ports. It also supports pre-standard IEEE802.3at devices consuming up to 59.5W. With full digital control via a serial communication interface and a minimum of external components, the IC integrates in multi-port and highly populated Ethernet switches.

The PD64004AH has two possible working configurations: a low-cost implementation, supporting up to 571mA and a fully IEEE802.3at-ready one. Both maintain the PD64004A Enhanced mode features, for extended functions and added flexibility with the presence of the PD63000G MCU.

FEATURES

BENEFITS

 Freedom to power all PoE PD's including Cisco's inline power
 Highest integration on the market, enabling the lowest real-estate occupation
 Enables building IEEE802.3at-ready solutions or low-cost 25W solutions Reliable and simple AC implementation Supports low power devices Enables integration in Managed Switches
 Backwards compatible with all PD64008-based message based user interface Up to 1528 ports on a switch Can be used with PD64012G
 Minimum per port external components No need for external DC/DC converter Power, high-voltage analog and high-density digital logic functions
Fit for commercial applications
 Minimal power supply stress and EMI noises Power management based on power allocation and priority map, on class value or on both, provides full flexibility and optimal power supply usage Prioritization of ports in case of power reduction Used for power supply failure conditions Capable of powering of up to 59W over 4-pairs Logical to physical port map User can receive interrupts on status or have automatic/direct LED driving Enables system monitoring Per port thermal protection, including PCB

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