

FEATURES AND SPECIFICATIONS

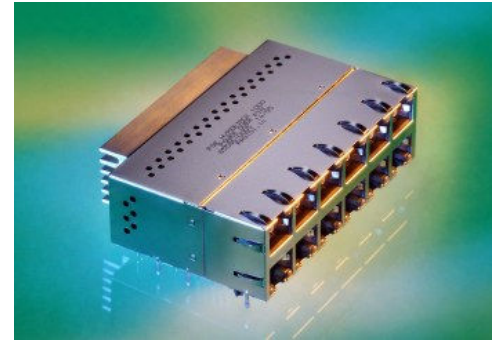


HyperJack 1000 PoE Module 85586 Series

The HyperJack PoE-Module provides the networking industry a cost effective implementation of Power over Ethernet (PoE) management

The innovative product enables PoE management functions embedded within a RJ45 connector. The module includes integrated magnetics for Gigabit Ethernet and integrated Power Management silicon. It is IEEE802.3 af compliant and provides power over existing Ethernet cabling infrastructure.

The module provides the customer with flexible port configurations and a migration path from non-PoE to fully integrated PoE designs.



Features and Benefits

- Fully integrated design (magnetics, controllers, protection circuit, LEDs, I/O-interface; EMI-shielding, heat-sink)
- Gigabit Ethernet magnetics compatibility with a variety of Gigabit PHY's, Excellent transmission and EMI performance
- Integrated, optoisolated I²C interface
- RoHS compliant
- 2 two-colored LED positioned per port
- Multiple port configurations (2x4)(2x6)
- Multiple Power Management features: Flexibility to use as Standalone solution without external components or with external remote for enhanced Power Management features
- Excellent thermal management - good heat dissipation
- Fast design-in for customer – design work for PoE done
- High integration density of components safes cost for logistic & purchasing and safes customers board space

Specifications (see Product Specification for detailed information)

Reference Information

Packaging: Tray
Mates with: 85568, 95043, 90075, plugs according IEC 60603-7
Designed In: Millimeters

Electrical

Hipot isolation: 2250VDC
OCL min 350µH @12mA
Insertion loss -0.8 @100MHz (typ)
Return loss -13.5 @100MHz (typ)
NEXT -33 @100MHz (typ)
CMR -40 @100MHz (typ)
Insertion loss -0.8 @100MHz (typ)

V48 Input voltage: 45.5V - 52V

I²C Interface:

Supply voltage 3.3V
Frequency 400kHz max

PoE Output Power

Voltage: 48V,
Power: 15.4Watt per port supplied over RJ45 contacts 1& 2(-) and 3&6 (+)

(all PoE parameters acc. IEEE802.3af)

LEDs

Connection: common anode
Colors: green & reddish orange

Forward Voltage 2.4V max. @20mA

Mechanical

Connector insertion and removal force 20N (4.5 lbf)
Locking force 50N (11 lbf) min.
Durability 750 cycles

Physical

Housing: Thermoplastic UL94-V0, Black
Contact: Phosphor Bronze
Plating:
Contact Area — Gold
Solder Tail Area — Tin
Underplating — Nickel
PCB Thickness: .140"

Ambient Operating

Temperature: 0°C-70°C
(temperature at heatsink / airflow 1m/s)

APPLICATIONS



HyperJack 1000 PoE Module 85586 Series

- Networking Equipment:
 - Ethernet switches 10/100/100
 - Routers
 - Hubs



ORDERING INFORMATION

Order No.	Description
85586-1003	HyperJack 1000 PoE Module 2x4
85586-1005	HyperJack 1000 PoE Module 2x6



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