

Microsemi 2.5Gbps Ethernet PoE Multiplexer

PDS-EM-8100-25



Overview

The PDS-EM-8100-25 PoE 2.5Gbps Multiplexer offers a compact and cost effective solution for 2.5Gbps devices installations such as WLAN access points, small cells and other IP terminal installations.

The PDS-EM-8100-25 converts two copper 1Gbps ports to one port of copper 2.5Gbps, in addition the multiplexer provides PoE to the end device according to IEEE 802.3at up to 30W.

The PDS-EM-8100-25 is un managed and it can be installed out of the box with zero configuration.

Key Features

- Converting 2 x 1G ports into 1 x 2.5Gbps port
- Provides PoE out up to 30Watts
- Plug and play – zero configuration needed
- Ability to perform remote SW upgrade

Main Application

- Enables 2.5Gbps interface on the switch side while using the existing 1Gbps switch, the MUX will convert 2 ports of the switch into one 2.5Gbps port that can be connected to the end device (Like 2.5Gbps Access point , 2.5Gbps small cell etc) while providing PoE

Main Benefit

- The Microsemi 2.5G Mux saves the cost and installation time associated with buying and installing a new and expensive 2.5Gbps switch

Specifications

Feature	Description
No. of Ports	3
Data Rates	Port 1 : 2.5Gbps Port 2-3: 10/100/1000 Mbps
Power over Ethernet Output	PoE 802.3at on port 1 Pin Assignment and Polarity: 3,6 (+), 1,2 (-) Output Power Voltage: 56Vdc
User Port Power	30 Watts (Guaranteed)
LED Indications	SYS PoE Connectors
Thermal rating	37.75 BTU
Input Power Requirements	AC Input Voltage: 100 to 240Vac AC Input Current: 0.79A @ 100Vac AC Frequency: 50 to 60Hz
Dimensions	134mm (W) x 38 mm (H) x 158 mm (L)
Weight	1.84 lbs. (835g)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 32° to 104°F (0 to 50°C) Operating Humidity: Maximum 95%, Non-condensing Storage Temperature: -40° to 158°F (-40° to 85°C) Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 200,000 hrs. @ 25°C
Warranty	1-year
Regulatory Compliance	RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B EN 55022 Class B EN 55024 VCCI
Safety	UL/IEC/EN 60950-1

Microsemi 2.5Gbps Ethernet PoE Mux

Ordering Information

Microsemi p/n	Name	Description
PDS-EM-8100-25/AC	Microsemi 2.5Gbps Ethernet PoE Mux	Converting 2 ports of 1Gbps into 1 port of 2.5G interface with 30W PoE



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