

ES3300 Switch Series

Managed Switch for Road and Rail Vehicles

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Product Information ES3300
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Picture differs from the item.

Key Features

Ethernet	2x Gigabit Ethernet, M12 8x Fast Ethernet, optional with PoE+, M12
Power	24 VDC to 48 VDC 12 VDC to 48 VDC without PoE
Layer 2 Features	Jumbo Frames Switching VLAN 802.1Q Port mirroring STP, RSTP
Temperature	-40 °C to +70 °C
Compliance	CE (RED), Vehicle (UNECE-R10, UNECE-R118), Railway (EN 50155, EN 45545), ITxPT

Product Description

The ES3300 is an Ethernet Switch that is developed for transportation applications. It has 10 Ethernet ports, two of them are Gigabit and 8 are Fast Ethernet ports. The optionally integrated PoE power supply provides up to 62W on 8 Fast Ethernet ports.

The layer 2 Switch has management functionality to realize network segmentation and redundant ring topology networks. It also can be used for automatic IP address configuration. Additionally the switch can be configured via an USB flash drive.

Designed in a metal housing the Switch reaches the protection class of IP54 and is robust for most applications. Further the M12 connectors provide secure connection and are able to endure high vibration and mechanical shocks.

The switch is preferred used in the combination with NB3800 Railway Routers or NB2810 Vehicle Routers to establish an Internet enabled and redundant Gigabit IP backbone with ring topology. The combination allows over-the-air configuration of all system components. We're currently working on a seamless management (configuration, firmware update) solution of Router, Switch and Connectivity Suite.

Applications

- Passenger WiFi
- Passenger Infotainment
- CCTV
- Ticketing
- eMobility

Specifications

Ethernet

2x Gigabit Ethernet

10/100/1000 Mbps

Connectors

2x M12 X-coded female

8x Fast Ethernet (optional with PoE+)

10/100 Mbps

PoE Standard

Max. 30 W per port, 60 W in total
PoE classes 0, 1, 2, 3, 4

Connectors

8x M12 D-coded female

USB

1x USB host port for configuration

Connector

1x M12 A-coded female

Power

Non PoE Operation

Nominal Input Voltages

12 VDC to 48 VDC (-12 % / +20 %)

Power Consumption

5 W

PoE Operation (only PoE version)

Nominal Input Voltages

24 VDC to 48 VDC (-33 % / +8 %)

Power Consumption

70 W

Connector

1x M12 A-coded male

LED Display

System

PWR, ERR, MOD, CFG

Gigabit ports

Link/activity, speed

Fast Ethernet ports

Link/activity, PoE

Software

General

Configuration via web WebGUI or USB

Layer 2 Features

Jumbo Frames Switching
VLAN 802.1Q
32 VLAN Groups (VLAN IDs: 4096)
Port mirroring
IGMP snooping
Storm protection
STP, MSTP, RSTP

Networking Services

DHCP Server (pool, port based, static leases, client)
SNMP v1/v2/v3

Security

1:1 NAT, PAT

Diagnose

Ethernet Ports

Link up/down, Traffic

Logging

Link, System, PoE

PoE

On/off, allocated power budget

ITxPT Services

Module Inventory

Other

Mounting

Brackets (wall mounting)

Dimensions

Width 175 mm x height 52 mm x depth 121 mm

Weight

750 g (PoE Version)
550g (non PoE Version)

Based on

006-130-117
006-130-118

Environment

Operating Temperature

-40 °C to +70 °C

Storage Temperature

-40 °C to +85 °C

Ingress Protection Level

IP54

Ambient humidity

10 % to 90 % non condensing

Certifications

Compliance

CE (RED)

Vehicle according to UNECE-R10, UNECE-R118

Railway according to EN 50155, EN 45545-2

ITxPT

Order code

ES3300-2Eg8Eq (PoE Version)

ES3300-2Eg8Ef (non PoE Version)