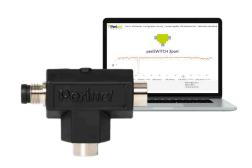


# periSWITCH 3-port

**Smart 3-Port SPE Network Switch** 





The periSWITCH 3-port switch enables branching for Perinet's IoT system, allowing multiple sensors and actuators to be connected in one network. To suit fast integration requirements in an ever-accelerating market, it is developed to work as a plug-and-play component. Furthermore, hybrid Single Pair Ethernet technology allows the periSWITCH 3-port to connect up to 50 components in one network and with only one power feed-in point.

## **Targeted Applications**

- Industrial sensors
- IoT / IIoT
- Remote sensor access
- Building automation

## **Key Features**

- **100Mbps** Single Pair Ethernet (100BASE-T1, IEEE 802.3bw)
- 24V power supplied via hybrid network cable
- End-to-end encryption with RBAC
- Integrated Software Stacks: TCP/IPv6, mTLS, MQTTs, HTTPs, mDNS, DNS-SD
- Integrated WebUI & RESTful API
- Supports remote firmware updates
- auto discovery (Zeroconf networking)
- patent-protected

## **Operational Parameters**

Operating voltage: 24VDC inputSupply Voltage: 24V output (2A max)

• Temperature range: -40°C to +70°C

Power consumption: 0.6W

## Housing

• Material: Hotmelt

Ingress Protection Class: IP65/67

## **Network Interface Power In**

• Type: M8-hybrid male connector, style 6J-M8CI w/o shielding (IEC 63171-6:2021) (Figure 1)

• Com.: 100BASE-T1 (IEEE 802.3bw)

Power: 24VDC in

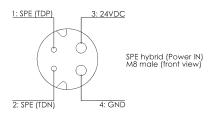


Figure 1: M8-hybrid male connector

### **Network Interfaces Power Out**

• Type: M8-hybrid female connector, style 6J-M8C w/o shielding (IEC 63171-6:2021) (Figure 2)

• Com.: 100BASE-T1 (IEEE 802.3bw)

• Power: 24VDC out

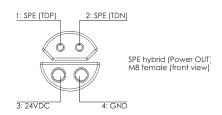


Figure 2: M8-hybrid female connector



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- CRA ready
- RoHS 3 (EU 2015/863), WEEE (2012/19/EU), REACH, CE
- Immunity standard according to IEC 61000-6-2:2016
- Emission standard according to IEC 61000-6-3:2020

## **Security**

- NIST compliant TLS implementation
- Role Based Access Control (RBAC)
- Certificate based client authentication
- AES encryption algorithm
- X.509 certificates and PKIX path validation
- Elliptic Curve Cryptography (ECC)

#### **Mechanical Dimensions**

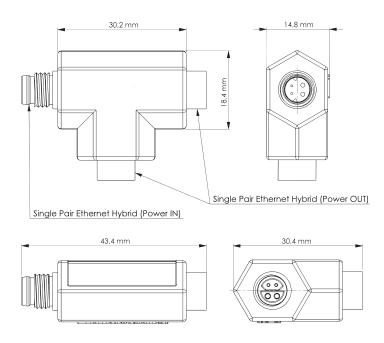


Figure 3: Mechanical Dimensions

# **Ordering Information**

Ordering Code	Product Name	Description
PRN.000.008	periSWITCH 3-port	hybrid SPE 3-port switch with M8 connectors.

#### **Support Products**

Ordering Code	Product Name	Description
PRN.000.002	periNODE 0-10V	smart adapter for 0 to 10V signal type.
PRN.000.006	periNODE Pt100	smart adapter for Pt100 based RTDs.
PRN.000.010	periNODE GPIO	smart adapter for GPIO signal type.
PRN.000.003	periSTART standard	hybrid SPE media converter with M8 connector.
PRN.000.017	periLINE 0.2m	hybrid SPE cable assembly (lengths 0.2m, 1m, 5m)



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