## SDN-IP0010XXD1-01G

# SDN-IP0010 | Industrial Software Defined Network Switch

**DYNICS SDN-IP0010 supports 10x NICS as an IP54 rated SDN switch. Built for industrial environments, the SDN-IP0010 supports storm protection and a bypass function for non-stop communication. With wide temperature range capability and redundant dual power inputs, this switch serves as a full solution even in harsh production settings.**

### Key Features

- A-Coded (5-Pin) Power Entry
- 10x X-Coded 10/100/1000T M12 Ethernet Ports
- IP54 Rating

## Hardware Specifications

| | |
|---|---|
| **NICS** | 10x X-Coded 10/100/1000T M12 Ethernet Ports |
| **POWER SUPPLY** | 1x A-Coded Port (5-Pin), 24-48VDC, 72-110VDC, Redundant Dual Inputs |
| **TEMPERATURE** | Operating: -40°-75°C \| -40°-167°F \| Non-Operating: -40°-85°C \| -40°-185°F |
| **RELATIVE HUMIDITY** | Non-Condensing: 5% - 95% |
| **SHOCK RESISTANCE** | IAW IEC61373 |
| **VIBRATION** | IAW IEC61373 |
| **MTBF** | >100,000 Hours |
| **COMPLIANCE** | -European Union Directive 2011/65/EU (RoHS)<br>-EN50155, EN45545-2<br>-FCC Part 15 Subpart B Class A<br>-CE EN 55032 Class A |
| **WARRANTY** | 24-Month limited warranty. Extended warranty available, contact DYNICS for more details. |
| **INCLUDED** | Wall Mounting Kits, Optional DIN-Rail Mounting |
| **TECHNICAL SUPPORT & MAINTENANCE** | Available, Renews Yearly, Contact DYNICS for details. |

## Software Defined Networking Overview

Networking is a critical component of industrial control systems (ICS). ICS networks differ significantly from information technology networks. Unfortunately, most existing Ethernet networking-related technologies are based on information technologies and practices. While information technology networks must manage dynamic environments, ICS networks are typically less dynamic and more repeatable in terms of network communications. ICS networks control processes including factory floor automation, food processing, water and wastewater system, and electric power distribution.

**Software Defined Networking (SDN)**, among other things, addresses reliability, visibility, data traffic control, network segmentation, and deny-by-default security.

We have adapted (SDN) to address demanding ICS requirements that traditional networking technologies are unable to do. SDN is an architectural networking concept that separates network configuration, or control plane, from the switch, or data plane. What this allows ICS network designers and engineers to do is define exactly what traffic and to which devices the traffic is allowed to flow within an ICS network. SDN technology also obsoletes complex concepts including VLANS, Spanning Trees, Network loops, and allows ICS networks to be designed to fit the requirements of the control system ***using standard IEEE 802.3 Ethernet***. Network designers and engineers are not encumbered by traditional information technology practices.

# SDN-IP0010XXD1-01G

## Dimensions, Weight, and Power Consumption

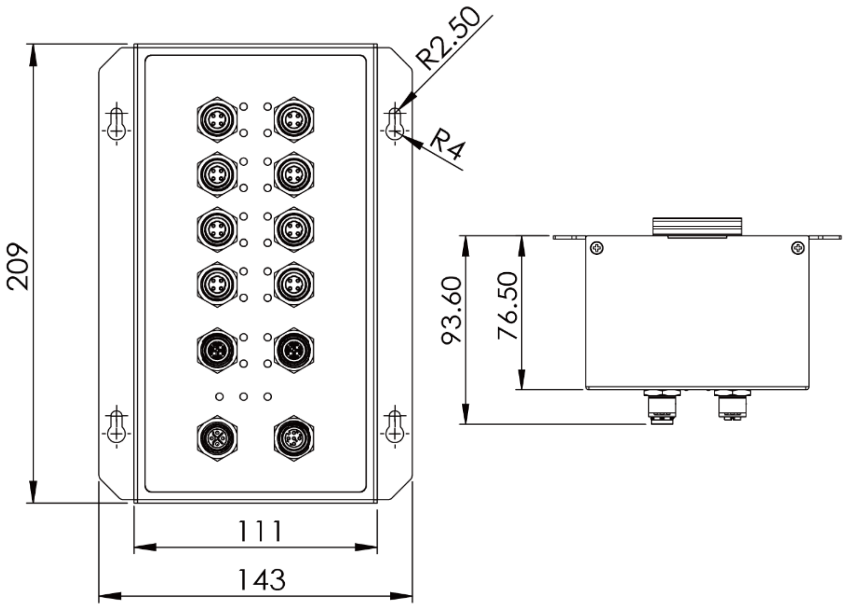
| | HEIGHT | WIDTH | DEPTH | WEIGHT | POWER CONSUMPTION |
|---|---|---|---|---|---|
| **SDN-IP0010** | 8.23" (209.0mm) | 5.63" (143.0mm) | 3.03" (77.0mm) | 2.64 lbs.* (1.20 kg) | 15 Watts** |

* Weights are approximate, contact DYNICS for details.

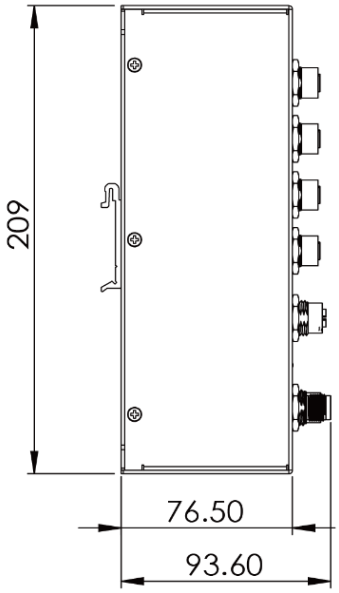
** Power consumption is based on maximum ratings, actual ratings vary significantly based on components used.

## Mechanical Drawings

### FRONT AND TOP VIEW

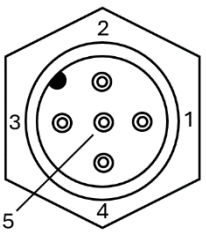



### SIDE VIEW




### POWER ENTRY

(5-Pin)




1: GND2
2: 24Vdc (POWER2)
3: 24Vdc (POWER1)
4: GND1
5: N.C