

ETH-IP0010XXDX-01G



ETH-IP0010 | Industrial Software Defined Network Switch

DYNICS ETH-IP0010 supports 10x NICS as an IP54 rated SDN switch. Built for industrial environments, the ETH-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

Orderable Part Number	Layer 2 / SDN or Layer 3	Power Entry
ETH2-IP0010XXD1-01G	Layer 2 / SDN	24~48VDC
ETH2-IP0010XXD2-01G	Layer 2 / SDN	72~110VDC
ETH3-IP0010XXD1-01G	Layer 3	24~48VDC
ETH3-IP0010XXD2-01G	Layer 3	72~110VDC

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) -EN50155, EN45545-2 -FCC Part 15 Subpart B Class A -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.





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Dimensions, Weight, and Power Consumption

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

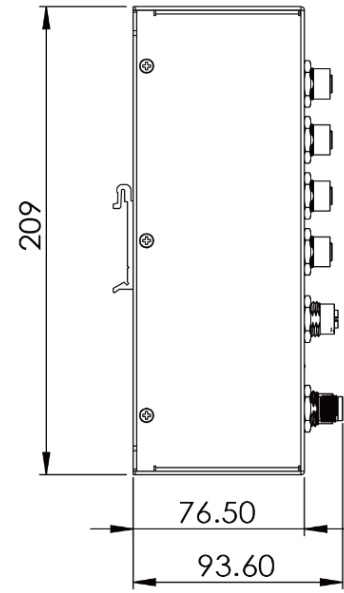
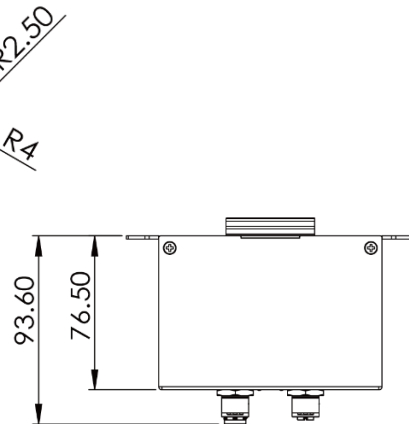
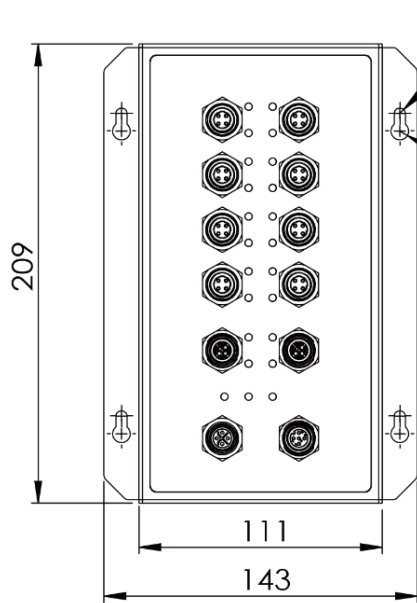
* Weights are approximate, contact DYNICS for details.

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

Mechanical Drawings

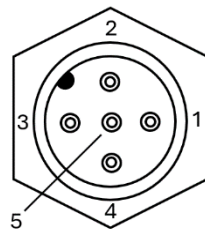
FRONT AND TOP VIEW

SIDE VIEW



POWER ENTRY

(5-Pin)



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

All measurements are in inches and pounds, unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options. DYNICS reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice.