

Industrial Switches



Next-Level Ruggedness. Next-Level Affordability.

OVERVIEW

Designed to thrive in demanding industrial environments, DuxNet Industrial Switches offer more than basic connectivity. Their rugged construction withstands extreme temperatures, vibrations, and electromagnetic interference, ensuring uninterrupted operation in even the harshest conditions. With built-in support for essential industrial protocols and advanced security features, these switches deliver reliable and secure network performance. Plus, our limited lifetime warranty provides unparalleled peace of mind, knowing your critical industrial networks are protected for the long haul.

MAIN FEATURES

- ✓ **Industrial-Grade Durability:** Built with a ruggedized enclosure to withstand extreme temperatures, vibrations, and electromagnetic interference in demanding industrial environments.
- ✓ **Managed Capabilities:** Offers advanced management features for network optimization, including VLAN support, QoS, and SNMP, to ensure efficient and secure network operation.
- ✓ **Industrial Protocol Support:** Compatible with essential industrial protocols for seamless integration into existing systems.
- ✓ **Comprehensive Security:** Includes robust security features such as network access control, port security, and secure management interfaces to protect against unauthorized access and cyber threats.
- ✓ **Gigabit Speed:** Provides high-speed Gigabit Ethernet connectivity for fast data transfer and efficient network performance.
- ✓ **Power over Ethernet (PoE):** Supports PoE functionality, allowing the switch to deliver power and data over a single Ethernet cable to connected devices such as IP cameras, access points, and VoIP phones.

Model Name	DUX108GPS-4F-IS
------------	------------------------

INDUSTRIAL SWITCHES



Product Description	12-port Gigabit-managed industrial PoE switch
---------------------	--

Port Configuration

10M/100M/1G RJ45 Ports	8
1G Uplink Ports (RJ45)	-
1G SFP Ports	4
Total Ports	12

PoE Function

IEEE802.3af (PoE 15.4W)	Y
IEEE802.3at (PoE+ 30W)	Y
UPoE(60W)	-
PoE Port	8
Available PoE Power	96W ~ 150W

Installation

Mounting	DIN Rail
----------	----------

HW Performance

Switching Bandwidth	24 Gbps
MAC Address	8K

Environmental Specification

Operating Temperature	-40°C to 75°C
Operating Humidity	-5% to 95%
Storage Temperature	-40°C to 75°C
Storage Humidity	-5% to 95%

Mechanical Specification

Dimensions (H) x (W) x (D) mm	110 x 46.5 x 163
Weight	1.0Kg

Power Source

AC/DC Input	48-56 VDC
Input Method	Plug-in 5-core 5.08mm pitch terminal block

AI Mode*

AI Extend	-
AI VLAN	-
AI QoS	-
AI PoE	-
Port-Based	-

Specifications

Hardware Watchdog	-
Traffic Statistics	-
Port Energy Saving	Y

Hardware Standard

IP40 Level Protection		Y
EMI	FCC CFR47 Part 15	Y
	EN55022/CISPR22	Y
	Class A	Y
EMS	IEC61000-4-2 (ESD)	±8kV (contact), ±15kV (air)
	IEC61000-4-3 (RS)	10V/m (80MHz-2GHz)
	IEC61000-4-4 (EFT)	Power Port: ±4kV; Data Port: ±2kV
	IEC61000-4-5 (Surge)	Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV
Mechanical Properties		
	IEC60068-2-6 (Vibration)	Y
	IEC60068-2-27 (Shock)	Y
	IEC60068-2-32 (Free Fall)	Y

Features

DHCP	DHCP Relay	Y
	DHCP Snooping	Y
VLAN	VLAN Entries	4K
	802.1Q VLAN	Y
	MAC-Based VLAN	Y
	IP Subnet-Based VLAN	Y
	Voice VLAN	Y
GARP/GVRP		Y
MAC Address Table	IEEE 802.1d	Y
	Auto Learning/Aging	Y
	Static	Y
	Dynamic	Y
	Filtering	Y
RUN-Ring		Y
	Self-Healing Time	10ms
	Public ERPS	Y
Spanning Tree	IEEE802.1D (STP)	Y
	IEEE802.1W (RSTP)	Y
	IEEE802.1S (MSTP)	Y
	Loop Protection	Y
	Root Bridge Protection	Y
	TC Protection	Y
	BPDU Protection	Y
	BPDU Filtering	Y
IGMP v1/v2		Y
Fast Leave		Y
Multicast VLAN		Y
Multicast Filtering		Y
Packet Statistics		Y
Unknown Multicast Discards		Y
Storm Suppression	Multicast	Y
	Broadcast	Y
	Unknown Unicast Suppression	Y

Features		
Link Aggregation	Static Aggregation	Y
	Dynamic Aggregation	Y
	IP	Y
	MAC-Based VLAN	Y
	Hybrid Load Balancing	Y
IPv6 Management	IPv6 Ping	Y
	IPv6 Tracert	Y
	IPv6 Telnet	Y
	IPv6 SSH	Y
	IPv6 SSL	Y

Safety Features		
Password Protection		Y
User Access based on:	Port Number	Y
	IP Address	Y
	MAC Address	Y
Encryption	HTTPS	Y
	SSL	Y
	TLS V1	Y
	SSH V1/V2	Y
RADIUS Authentication 802.1x		Y

Management and Maintenance		
Web Management	HTTP	Y
	HTTPS	Y
	SSL v3	Y
CLI	Telnet	Y
	SSH V1/V2	Y
	Local Serial Port	Y
SNMP	V1/V2/V3	Y
LLDP		Y
RMON		Y
ARP Protection		Y
IP Source Protection		Y
DoS Protection		Y
CPU Monitoring		Y
Memory Monitoring		Y
System Log		Y
Grading Warning		Y
Ping		Y
Tracert Detection		Y

*Each unit is equipped with 4 working Modes which include VLAN (Port Isolation), AI Extender (Increasing transmission distance up to 250m at 10mbps), AI PoE (Automatically restarts a device if no data passes through the port for a set time) and AI QoS (Priorities network bandwidth).

