

# METATRONIX

Innovative Intelligent Transport Systems

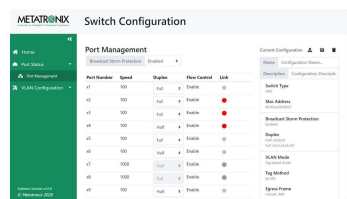
Certified System  
IATF 16949  
Automotive



## D-Switch

**D-Switch** is a family of Ethernet switches designed specifically for the Automotive & Rail market that allows to make a LAN for all ITS devices connection, such as on-board computer systems, e-ticketing, video surveillance, P.I.S., etc.

The design for automotive environment and his certifications ensure maximum performance and reliability. **D-Switch** is available in **Unmanaged** or **Managed** version, with 8 ports 10/100 Mbps, in standard configuration or with 4/6/8 ports **PoE Plus**, or with 6 ports 10/100 Mbps + 2 **Gigabit** ports 10/100/1000 Mbps.



D-Switch configuration Web Interface

The D-Switches are equipped with M12 connectors. All models are compliant with IP66 environmental protection level, +24V power supply, heavy-duty automotive environment, and EBSF and ITxPT directives.



**D-Switch** is labeled ITxPT



INFORMATION TECHNOLOGY  
For PUBLIC TRANSPORT

### Tecnologia

Standards	IEEE 802.3 for 10BaseT, IEEE 802.3ab for 1000BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3ab for 1000BASE-T (only for Gbps models), IEEE 802.3x for Flow Control, IPV4/IPV6 QoS support, IEEE 802.3at (only for PoE+ models), IGMP V3
Processing Type	Store and Forward
Flow Control	IEEE 802.3x full duplex, Half Duplex back pressure flow control
Interfacce	8 x 10/100BaseT(X) 4 poles D-coded or 6 + 2 x 10/100/1000BaseT(X) 8 poles X-Coded for Gbps with auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X
M12 connettori	Power, Link/Activity, PoE On, Error.
LED Indicators	
Alimentazione	
Input Voltage	9 to 36 VDC, Reverse polarity protection
Input Current (max)	100 mA @ 24 VDC (non PoE models)
PoE Power fornita	Max 100 W total (@ 60°C Ambient Temp.) Max 30 W on a single port
Economy mode	IEEE802.3az EEE (Energy Efficient Ethernet) Auto Power Saving Mode WOL+ (Wake On LAN Plus)
Connettore	M12 A-coded 5 poles Male, for IP66 protection
Reverse Polarity	Protected
Management	
Remote management	Web Based interface for secure remote management
Caratteristiche fisiche	
Contenitore	Aluminium alloy, IP66 protection
Dimensioni	175 x 121 x 55 mm (LxWxH)
Ambientali	
Temp. Operativa	-40° to +70° C, +80° for 30 min.
Temp. Immagazz.	-40° to +90° C
Umidità relativa	5 to 95% (non-condensing)
Certificazioni	E-mark ECE R10.05 ITxPT
Conformità	ENS0310 CNHi, EN13149 parts 7/8/9, EN 50155 : Humidity, Ambient air temperature, Storage temperature, Power supply voltage interruption, Surges, Vibration, broad-band random and guidance.

### MODELLI & CONFIGURAZIONI

PDSW020x80	Unmanaged D-Switch 8 Mbps ports
PDSW020x84	Unmanaged D-Switch 4 + 4 PoE+ Mbps ports
PDSW020x88	Unmanaged D-Switch 8 PoE+ Mbps ports
PMSW120x80	Unmanaged D-Switch 6 Mbps + 2 Gbps ports
PDSW220x80	Managed D-Switch 8 Mbps ports
PDSW220x84	Managed D-Switch 4 + 4 PoE+ Mbps ports
PDSW220x88	Managed D-Switch 8 PoE+ Mbps ports
PMSW220x80	Managed D-Switch 6 Mbps + 2 Gbps ports
PDSW032x60	Unmanaged D-Switch 8 Mbps ports + 2 Gbps ports
PMSW032x80	RAIL Unmanaged D-Switch 8 Mbps +2 Gbps ports
PMSW032x84	RAIL Unmanaged D-Switch 4+4 PoE+ Mbps +2 Gbps ports
PMSW032x86	RAIL Unmanaged D-Switch 2+6 PoE+ Mbps +2 Gbps ports
PMSW032x88	RAIL Unmanaged D-Switch 8 PoE+ Mbps +2 Gbps ports
PDSW232x60	RAIL L2 Managed D-Switch 8 Mbps ports + 2 Gbps ports
PMSW232x80	RAIL L2 Managed D-Switch 8 Mbps +2 Gbps ports
PMSW232x84	RAIL L2 Managed D-Switch 4+4 PoE+ Mbps +2 Gbps ports
PMSW232x86	RAIL L2 Managed D-Switch 2+6 PoE+ Mbps +2 Gbps ports
PMSW232x88	RAIL L2 Managed D-Switch 8 PoE+ Mbps +2 Gbps ports

D-Switch has different modes to manage the Power ON and Power OFF selectable in factory, the code x inside the part number defines the configuration:

- 1 - for Power ON and OFF managed by the vehicle Key, Power off delay selectable from 0 to 120 sec.
- 2 - for Power ON and OFF managed by an ITS device.

MADE IN ITALY

