

DVS-005R00 Series

Unmanaged Industrial 5-Port FE Ethernet Switches



UL 61010



-20~70°C



EMC LEVEL 3



FANLESS

- ▶ Compact size saves space in tiny areas and makes installation easy and fast
- ▶ Supports IEEE 802.1p based QoS for packet forwarding precedence
- ▶ Transparent transmission of VLAN tagged packets
- ▶ 12 to 48 V_{DC} redundant terminal block power input
- ▶ Jumbo frame size up to 2,000 Bytes
- ▶ -20°C to 70°C wide operating temperature
- ▶ Compatible with various industrial protocols, including EtherNet/IP, Profinet, CC-LINK IE, and DNP 3.0



Specifications

TECHNOLOGY

Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-T(X)

- IEEE 802.3x Flow Control
- IEEE 802.1p Class of Service, Priority Protocols

Processing Type

- Store and forward
- IEEE 802.3x flow control in full duplex, back-pressure flow control in half duplex

INTERFACE

Fast Ethernet

RJ45 Ports:

- 10/100Base-T(X), auto MDI/MDI-X, auto negotiation

LEDs

Per Device:

- PWR1, PWR2

Per Port:

- LINK/ACT

PERFORMANCE AND SCALABILITY

Switching Capacity

- 1Gbps, wire-speed, non-blocking switching fabric

Forwarding Rate

- 1.5Mpps

MAC Address Table

- 2K

Packet Buffer Memory

- 768K bits

Transparent Forwarding VLAN Tagged Packets

- Default enabled

IEEE 802.1p based QoS

- Default enabled

POWER REQUIREMENTS

Input Voltage

- 2 sets, 12 to 48 V_{DC} redundant terminal block power input

Input Current

- Max. 0.15A

Overload Current Protection

- Present, max. input current 0.8A

Reverse Polarity Protection

- Present

PHYSICAL

Housing

- IP40 metal case

Dimensions

- 115mm (H) x 28mm (W) x 80mm (D)

Weight

- 190g

Installation

- Industrial DIN-Rail and wall mounting

ENVIRONMENTAL LIMITS

Operating Temperature

- -20°C to 70°C (-4°F to 158°F)

Storage Temperature

- -40°C to 85°C (-40°F to 185°F)

Ambient Relative Humidity

- 5% to 98% (non-condensing)

APPROVALS

Safety

- UL 61010, IEC 62368-1, KC, EAC

EMI

- FCC 47 CFR Part 15 Subpart B Class A, IEC 61000-6-4, EN 55011, EN 55032(CISPR32), ICES-003: 2020, ICES-Gen: 2018, RCM

EMS [IEC 61000-6-2, IEC 61131-2, EN 55032, EN 55024]

- IEC 61000-4-2 level 4, IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-5 level 2, IEC 61000-4-6 level 3, IEC 61000-4-8 level 4, IEC 61000-4-29

Environmental Type Tests

Cold Temperature:

- IEC 60068-2-1

Dry Heat:

- IEC 60068-2-2

Humidity:

- IEC 60068-2-30

Shock:

- IEC 60068-2-27

Freefall:

- IEC 60068-2-32

Vibration:

- IEC 60068-2-6

Hi-Pot:

- 1.5KV

Ordering Information

Product		Port Combination	Interface
Model Name	Operating Temperature	10/100Base-T(X)	Power Input
DVS-005R00	-20°C to 70°C	5	2

Optional Products

DVP/CliQ/PMC Series: 12/24 V_{DC} Industrial Power Supply

CliQII/PMC Series: 48V_{DC} Industrial Power Supply