

DVS-G008I/G005I00A Series

Unmanaged Industrial 5 and 8-Port GbE Ethernet Switches



- ▶ Supports IEEE 802.1p based QoS for packet forwarding precedence
- ▶ Built-in Broadcast Storm Protection
- ▶ Transparent transmission of VLAN tagged packets
- ▶ Jumbo frame size up to 9,216 Bytes
- ▶ EEE Green Ethernet for power savings
- ▶ 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 802.3ab 1000Base-T
- 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

Gigabit Ethernet

RJ45 Ports:

- 10/100/1000Base-T, auto MDI/MDI-X, auto negotiation

LEDs

Per Device:

- PWR

Per Port:

- 10/100/1000M, LINK/ACT

PERFORMANCE AND SCALABILITY

Switching Capacity

DVS-G005I00A:

- 10Gbps, wire-speed, non-blocking switching fabric

DVS-G008I00A:

- 16Gbps, wire-speed, non-blocking switching fabric

Forwarding Rate

DVS-G005I00A:

- 7.44Mpps

DVS-G008I00A:

- 11.9Mpps

MAC Address Table

DVS-G005I00A:

- 2K

DVS-G008I00A:

- 8K

Packet Buffer Memory

DVS-G005I00A:

- 1M bits

DVS-G008I00A:

- 2M bits

Jumbo Frame

- 9,216 Bytes

Broadcast Storm Protection

- Default enabled

Transparent Forwarding VLAN Tagged Packets

- Default enabled

IEEE 802.1p based QoS

- Default enabled

Green Ethernet

- Default enabled

POWER REQUIREMENTS

Input Voltage

- 1 set, 12 to 48 V_{DC} terminal block input

Input Current

- Max. 0.18A

Overload Current Protection

- Present, max. input current 3A

Reverse Polarity Protection

- Present

Buffer Time

- Min. 13ms at 24V_{DC}

PHYSICAL

Housing

- IP40 metal case

Dimensions

- 145.3mm (H) x 45mm (W) x 108.7mm (D)

Weight

- 300g

Installation

- Industrial DIN-Rail and wall mounting

ENVIRONMENTAL LIMITS

Operating Temperature

- -10°C to 60°C (14°F to 140°F)

Storage Temperature

- -40°C to 85°C (-40 °F to 185 °F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

APPROVALS

Safety

- UL 508, EN 60950-1, IEC 61131-2

EMI

- FCC 47 CFR Part 15 Subpart B Class A, IEC 61000-6-4, EN 55022(CISPR22)

EMS [IEC 61000-6-2, EN 55024(CISPR24)]

- IEC 61000-4-2 level 3, IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-5 level 2, IEC 61000-4-6 level 2, 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 60255-21-2

Freefall:

- IEC 60068-2-32

Vibration:

- IEC 60068-2-6

Hi-Pot:

- 1.5KV

Ordering Information

Product		Port Combination			Interface		
Model Name	Operating Temperature	Combo Port 10/100/1000Base-T and 100/1000Base-SFP	10/100/1000 Base-T	10/100 Base-T(X)	DI	DO (Relay)	Power Input
DVS-G008I00A	-10°C to 60°C	---	8	---	---	---	1
DVS-G005I00A	-10°C to 60°C	---	5	---	---	---	1

Optional Products

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