



New Product Release
IES Industrial Ethernet – DVS series

Newsletter

Table of Content

Product Introduction	2
Electrical and Hardware Specifications	3
Ordering Information	14
Expected Release Date	15



New Product Release IES Industrial Ethernet – DVS series

Newsletter

Product Introduction

Spot Light:

Managed Ethernet Switch

DVS-110W02-3SFP

SFP Fiber Transceiver

LCP series

Unmanaged Gigabit Ethernet Switch

DVS-G008I00A

DVS-G005I00A

Unmanaged Fast Ethernet Switch

DVS-008I00



UL508



-40~75°C



IEC 61000-6-2
LEVEL 3

DVS Series are Layer 2 Industrial Ethernet Switches providing high-density performance in harsh and hazardous industrial environments specially. DVS Ethernet Switches can work with original IPv4 and IPv6 network structure. For efficient management, DVS Ethernet Switches are equipped with SNMP and MODBUS TCP management protocols. With their built-in WEB-based management interface, offer an easy-to-use, platform-independent management and configuration facility. Powerful traffic management of IGMP and QoS features to take full advantage of constrained network resource and guarantee the best performance.

DVS Ethernet Switches support STP/RSTP/MSTP for network redundancy to maximize system reliability. Excellent ruggedized hardware design with 12 to 48 VDC redundant power inputs, wide operating temperature range of -40°C to 75°C without the use of internal fans, and LEVEL 3 of immunity to electromagnetic interference (EMI) well beyond what is currently delivered by commercial grade networking products, providing superior reliability. Real time event alarm by EMAIL, relay output, SNMP trap and Syslog are assisting network administrators to solve problems.

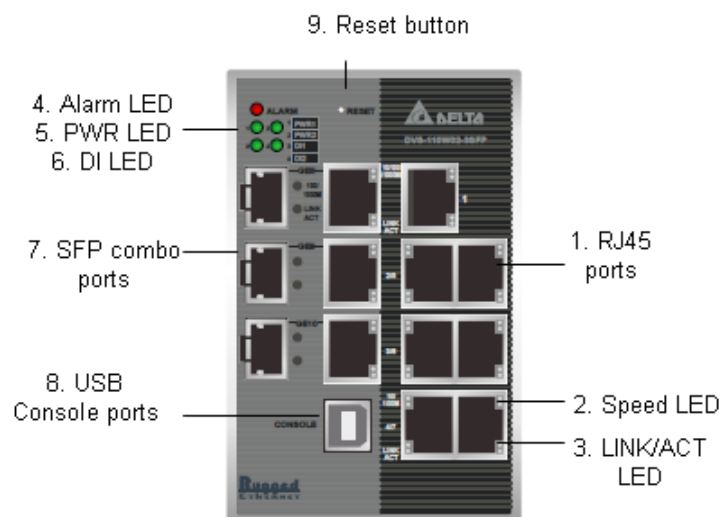
UL, CE and FCC certifications are ensuring reliable operation in any possibility application.

Electrical and Hardware Specifications

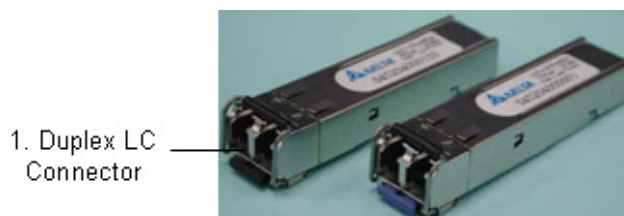
View

Managed Ethernet Switch

DVS-110W02-3SFP



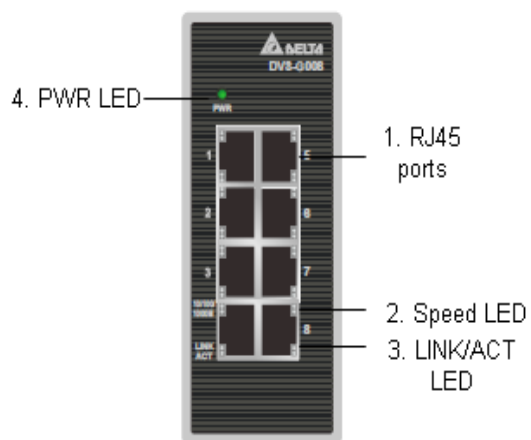
LCP series SFP Fiber Transceiver



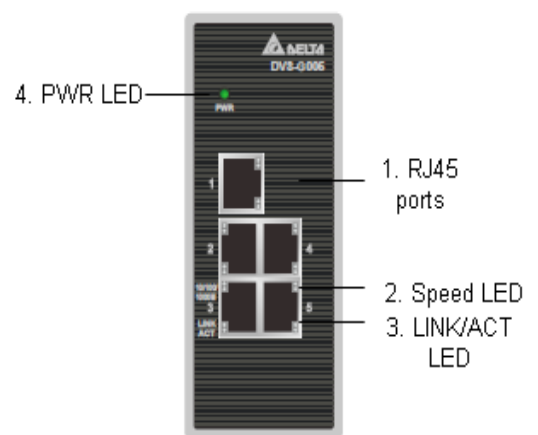
Unmanaged Ethernet Switch

Gigabit Ethernet

DVS-G008I00A

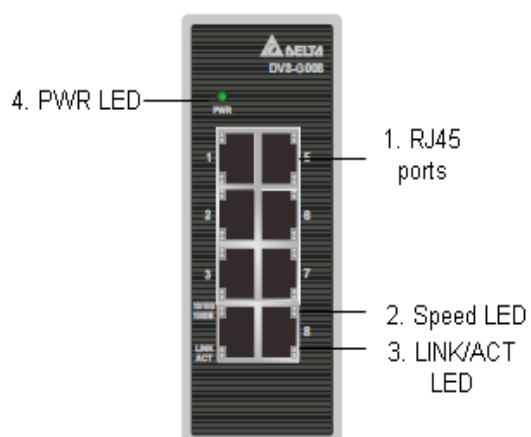


DVS-G005I00A



Fast Ethernet

DVS-008I00





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Newsletter

Electrical and Specifications

DVS-110W02-3SFP

7 10/100Base-T(X) Ports + 3 10/100/1000Base-T Combo 100/1000Base-SFP Ports Managed Ethernet Switch

Advantages:

- **Support Star, Tree and Ring topologies.**
- **Network Redundancy**
- **Complete Layer 2 Management Functions**
- **Remote Network management – SNMP and MODBUS TCP**
- **Powerful Network Security**
- **Optimize Traffic and Bandwidth**
- **WEB-based Configuration Interface**
- **Hot Pluggable SFP Gigabit Fiber Transceiver**
- **Compatible with MODBUS TCP, EtherNet/IP, Profinet, DNP 3.0 TCP and EtherCAT**

■ Technology

Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-T(X) and 100Base-FX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.3x Flow Control IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service, Priority Protocols IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication IEEE 802.3ad LACP Aggregation IEEE 802.1AB Link Layer Discovery Protocol
Processing Type	Store and Forward IEEE 802.3x flow control in full duplex Back- pressure flow control in half duplex



New Product Release

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Newsletter

■ Interface

Ethernet Ports	RJ45 Ports	10/100Base-T(X), auto MDI/MDI-X, auto negotiation	
	Gigabit	RJ45 Ports	10/100/1000Base-T, auto MDI/MDI-X, auto negotiation
	Combo Ports	SFP Ports	100/1000Base-SFP
Digital Input(DI)		2 sets with current carrying capacity 6mA 0~+5V is OFF +11~+30V is ON	
Alarm Relay(DO)		2 sets relay output with current carrying capacity 5A@24VDC	
Console Port		1 set USB B-type	
Reset Button		1 set	

■ Ethernet Performance

Switching Capacity	7.4Gbps wire-speed, non-blocking switching fabric
MAC Table	8K MAC addresses
Packet Buffer Memory	512K bits

■ Management

Console	WEB-based, USB console, Telnet
Protocol	IPv4/IPv6, MODBUS TCP, IGMP V1/V2/V3, GMRP, GVRP, SNMP V1/V2c/V3, QoS, VLAN, LACP, LLDP, DHCP/BootP Server/Client, DHCP option 66/67/82, NTP Server/Client, SMTP, Telnet, Syslog, RMON, TFTP
Network Redundancy	STP/RSTP/MSTP
Security	ACL, IEEE 802.1x, TACACS+, SSH, HTTP, HTTPS, SNMP V3
Watchdog	Embedded
MIB	MIB II, Bridge MIB, VLAN MIB, Trunking MIB, DELTA Private MIB

■ Power Requirement

Input Voltage	2 sets 24VDC(12 to 48VDC) redundant inputs by terminal block
Power Consumption	11W MAX. 0.43A@24V



New Product Release

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Newsletter

■ Physical

Housing	IP40 protection, aluminum metal case
Dimensions	145.3mm(H) x 75mm(W) x 108.7mm (D)
Weight	564g
Installation	Industrial DIN-Rail and wall mounting

■ Environmental Limits

Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95%(non-condensing)

■ Approval

Safety	UL 508, EN 60950-1, IEC 61131-2
EMI	CE/EN55022, FCC Part 15 Class A , IEC61000-6-3/4
EMS	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-29



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Newsletter

LCP series

SFP Fiber Transceiver

■ 1 Port Gigabit Ethernet Performance

Standard	IEEE 802.3z
Ethernet Port	1 1000Mbps
Fiber Optics	MultiMode: 50/125um, 62.5/125um
	SingleMode: 9/125um
Connectors	Hot Pluggable Duplex LC Connectors
DDM Monitoring	Temperature, Voltage, Tx Power, Rx Power
Operating Temperature	Standard: -5°C to 70°C
	Wide Temperature: -40°C to 85°C
Ambient Relative Humidity	5% to 95%(non-condensing)
Approval	UL 60950, IEC 60825-1, IEC 61000-4-2, FCC Part 15 Class B

■ 1 Port Fast Ethernet Performance

Standard	IEEE 802.3u
Ethernet Port	1 100Mbps
Fiber Optics	MultiMode: 50/125um, 62.5/125um
	SingleMode: 9/125um
Connectors	Hot Pluggable Duplex LC Connectors
DDM Monitoring	Temperature, Voltage, Tx Power, Rx Power
Operating Temperature	Standard: -5°C to 70°C
	Wide Temperature: -40°C to 85°C
Ambient Relative Humidity	5% to 95%(non-condensing)
Approval	UL 60950, IEC 60825-1, IEC 61000-4-2, FCC Part 15 Class B



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Newsletter

DVS-G005I00A / DVS-G008I00A

5/8 10/100/1000Base-T Ports Gigabit Unmanaged Ethernet Switches

Advantages:

- 1000Mbps for High Bandwidth Demand, Ex: IP CAM and Video...
- Broadcast Storm Protection
- Transparent Forwarding VLAN Tagged Packets
- QoS for Packet Forwarding Precedence
- Support 9KB Jumbo Frame Transmission
- Green Ethernet
- Compatible with MODBUS TCP, EtherNet/IP, Profinet, DNP 3.0 TCP and EtherCAT

■ Technology

Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-T(X)/100Base-FX, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p
Processing Type	Store and Forward
	IEEE 802.3x flow control in full duplex
	Back- pressure flow control in half duplex

■ Interface

Ethernet Ports	RJ45 Ports	10/100/1000Base-T, auto MDI/MDI-X, auto negotiation
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■ Ethernet Performance

Switching Capacity	DVS-G005I00A	10Gbps, wire-speed, non-blocking switching fabric
	DVS-G008I00A	16Gbps, wire-speed, non-blocking switching fabric
MAC Address Table	DVS-G005I00A	2K
	DVS-G008I00A	8K
Packet Buffer Memory	DVS-G005I00A	1M bits
	DVS-G008I00A	2M bits
Broadcast Storm Protection	Default Enabled	
Transparent Forwarding VLAN Tagged Packets	Default Enabled	
IEEE 802.1p based QoS	Default Enable	
Jumbo Frame	9KB	
Green Ethernet	Default Enable	



New Product Release

IES Industrial Ethernet – DVS series

Newsletter

■ Power Requirement

Input Voltage	1 set 24VDC(12 to 48VDC) input by terminal block
Power Consumption	2.7W Max. 0.11A@24V

■ Physical

Housing	IP40 protection, aluminum 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℃ to 60℃ (14°F to 140°F)
Storage Temperature	-40℃ to 85℃ (-40°F to 185°F)
Ambient Relative Humidity	5% to 95%(non-condensing)

■ Approval

Safety	UL 508, EN 60950-1, IEC 61131-2
EMI	CE/EN55022, FCC Part 15 Class A , IEC61000-6-3/4
EMS	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-29



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Newsletter

DVS-008I00

8 10/100Base-T(X) Ports Unmanaged Ethernet Switch

Advantages:

- **Cost-effective**
- **Slim Case Design**
- **Compatible with MODBUS TCP, EtherNet/IP, Profinet, DNP 3.0 TCP and EtherCAT**

■ Technology

Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-T(X)/100Base-FX
Processing Type	Store and Forward
	IEEE 802.3x flow control in full duplex
	Back- pressure flow control in half duplex

■ Interface

Ethernet Ports	RJ45 Ports	10/100Base-T(X), auto MDI/MDI-X, auto negotiation
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■ Ethernet Performance

Switching Capacity	1.6Gbps, wire-speed, non-blocking switching fabric
MAC Address Table	8K
Packet Buffer Memory	1M bits

■ Power Requirement

Input Voltage	1 set 24VDC(12 to 48VDC) input by terminal block
Power Consumption	2.7W Max. 0.11A@24V

■ Physical

Housing	IP40 protection, aluminum metal case
Dimensions	145.3mm(H) x 45mm(W) x 108.7mm(D)
Weight	300g
Installation	Industrial DIN-Rail and wall mounting

■ Environmental Limits

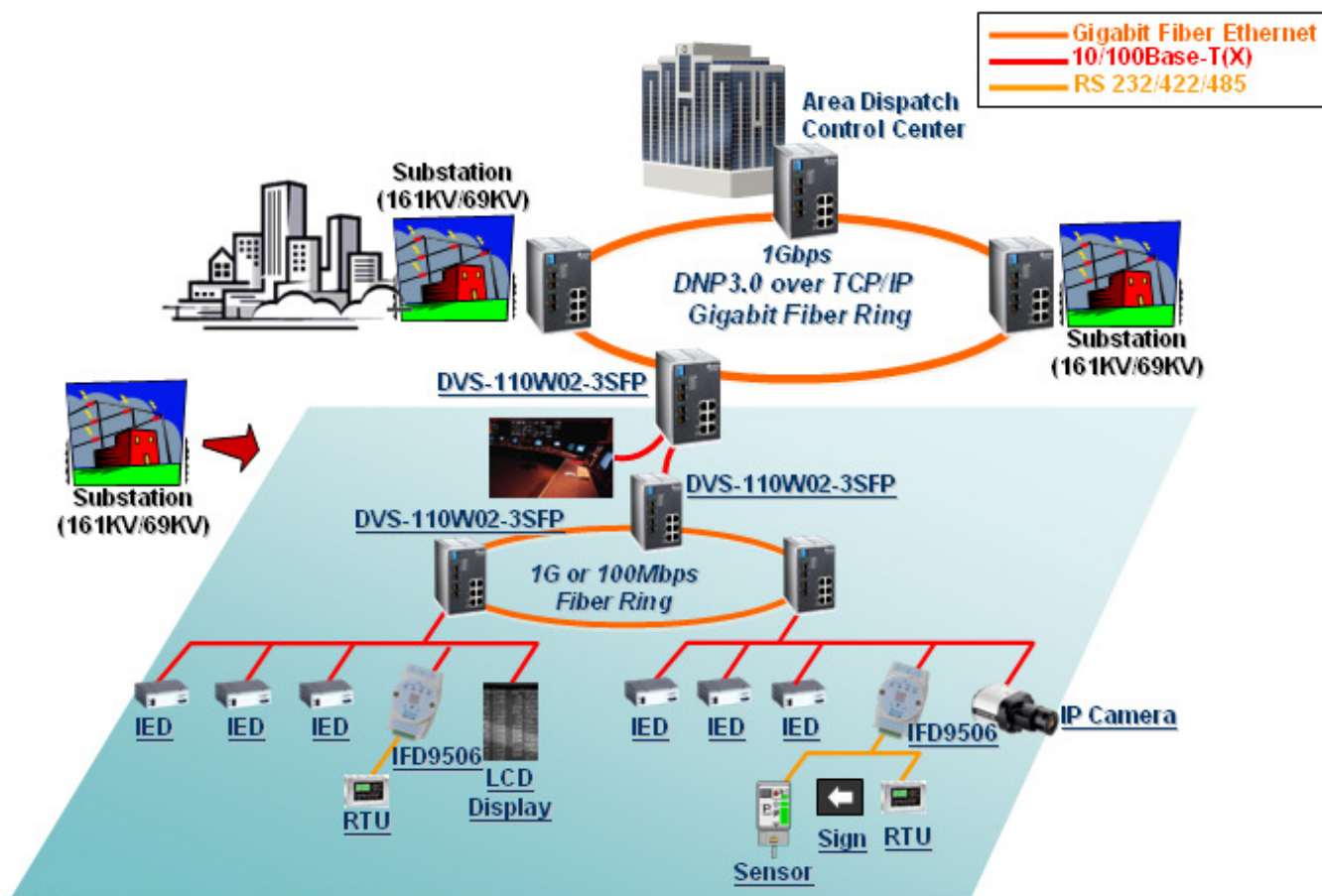
Operating Temperature	-10°C to 60°C (14°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95%(non-condensing)

■ Approval

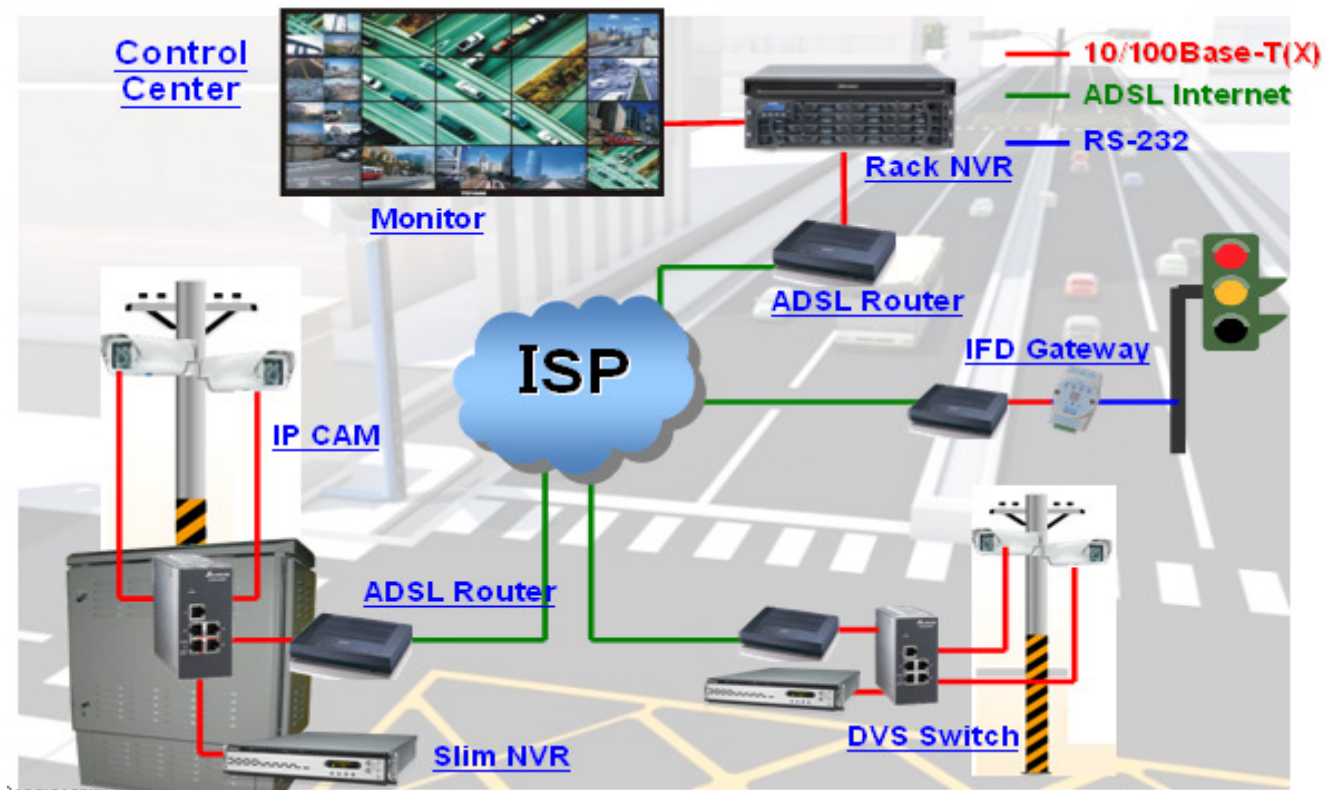
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EMS	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-29

APPLICATION :

I. Power Substation



II. Video Surveillance and Traffic Signal Control System





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Newsletter

Ordering Information

DVS Managed Ethernet Switch

Product		Port Combination			Interface		
Model Name	Operating Temperature	Combo Port 10/100/1000Base-T and 100/1000Base-SFP	10/100/ 1000Base-T	10/ 100Base-T(X)	DI	DO (Relay)	Power Input
DVS-110W02-3SFP	-40℃ to 75℃	3	---	7	2	2	2

LCP SFP Fiber Transceiver series

Product		Interface		
Model Name	Operating Temperature	Speed	Fiber Type	Distance
LCP-1250A4FDR-J	-5℃ to 70℃	1000Mbps	LC, MultiMode	550m
LCP-1250A4FDRT-J	-40℃ to 85℃	1000Mbps	LC, MultiMode	550m
LCP-1250B4QDR-J	-5℃ to 70℃	1000Mbps	LC, SingleMode	10km
LCP-1250B4QDRT-J	-10℃ to 60℃	1000Mbps	LC, SingleMode	10km
LCP-1250B4MDR-J	-5℃ to 70℃	1000Mbps	LC, SingleMode	40km
LCP-1250B4MDRT-J	-40℃ to 85℃	1000Mbps	LC, SingleMode	40km
LCP-155A4HDR-J	-5℃ to 70℃	100Mbps	LC, MultiMode	5km
LCP-155A4HDRT-J	-40℃ to 85℃	100Mbps	LC, MultiMode	5km
LCP-155B4JDR-J	-5℃ to 70℃	100Mbps	LC, SingleMode	30km
LCP-155B4JDRT-J	-40℃ to 85℃	100Mbps	LC, SingleMode	30km
LCP-155B4MDR-J	-5℃ to 70℃	100Mbps	LC, SingleMode	60km
LCP-155B4MDRT-J	-40℃ to 85℃	100Mbps	LC, SingleMode	60km



New Product Release

IES Industrial Ethernet – DVS series

Newsletter

DVS Unmanaged Ethernet Switch

Product		Port Combination			Interface		
Model Name	Operating Temperature	Combo Port 10/100/1000Base-T and 100/1000Base-SFP	10/100/ 1000Base-T	10/ 100Base-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
DVS-008I00	-10°C to 60°C	---	---	8	---	---	1

Expected Release Date

Model Name	Date	Minimum Order Quantity (pcs)
DVS-110W02-3SFP	2-Dec-2013	12
LCP SFP series	2-Dec-2013	5
DVS-G008I00A	7-Nov-2013	12
DVS-G005I00A	7-Nov-2013	12
DVS-008I00	7-Nov-2013	12

✧ From now on, DELTA website generate the new item “Industrial Ethernet”, Quick Start of multilingual version, Product Catalog of English version and Dimensions were uploaded to the website, please visit <http://www.deltaww.com>