



IABU Headquarters

Delta Electronics, Inc.
Taoyuan Technology Center
No. 18, Xinglong Rd., Taoyuan City,
Taoyuan County 33068, Taiwan
TEL: 886-3-362-6301 / FAX: 886-3-371-6301

Asia

Delta Electronics (Jiangsu) Ltd.
Wujiang Plant 3
1688 Jiangxing East Road,
Wujiang Economic Development Zone
Wujiang City, Jiang Su Province,
People's Republic of China (Post code: 215200)
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

Delta Greentech (China) Co., Ltd.
238 Min-Xia Road, Pudong District,
Shanghai, P.R.C.
Post code : 201209
TEL: 86-21-58635678 / FAX: 86-21-58630003

Delta Electronics (Japan), Inc.
Tokyo Office
2-1-14 Minato-ku Shibadaimon,
Tokyo 105-0012, Japan
TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

Delta Electronics (Korea), Inc.
1511, Byucksan Digital Valley 6-cha, Gasan-dong,
Geumcheon-gu, Seoul, Korea, 153-704
TEL: 82-2-515-5303 / FAX: 82-2-515-5302

Delta Electronics Int'l (S) Pte Ltd
4 Kaki Bukit Ave 1, #05-05, Singapore 417939
TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.
Plot No 43 Sector 35, HSIIDC
Gurgaon, PIN 122001, Haryana, India
TEL : 91-124-4874900 / FAX : 91-124-4874945

Americas

Delta Products Corporation (USA)
Raleigh Office
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
TEL: 1-919-767-3800 / FAX: 1-919-767-8080

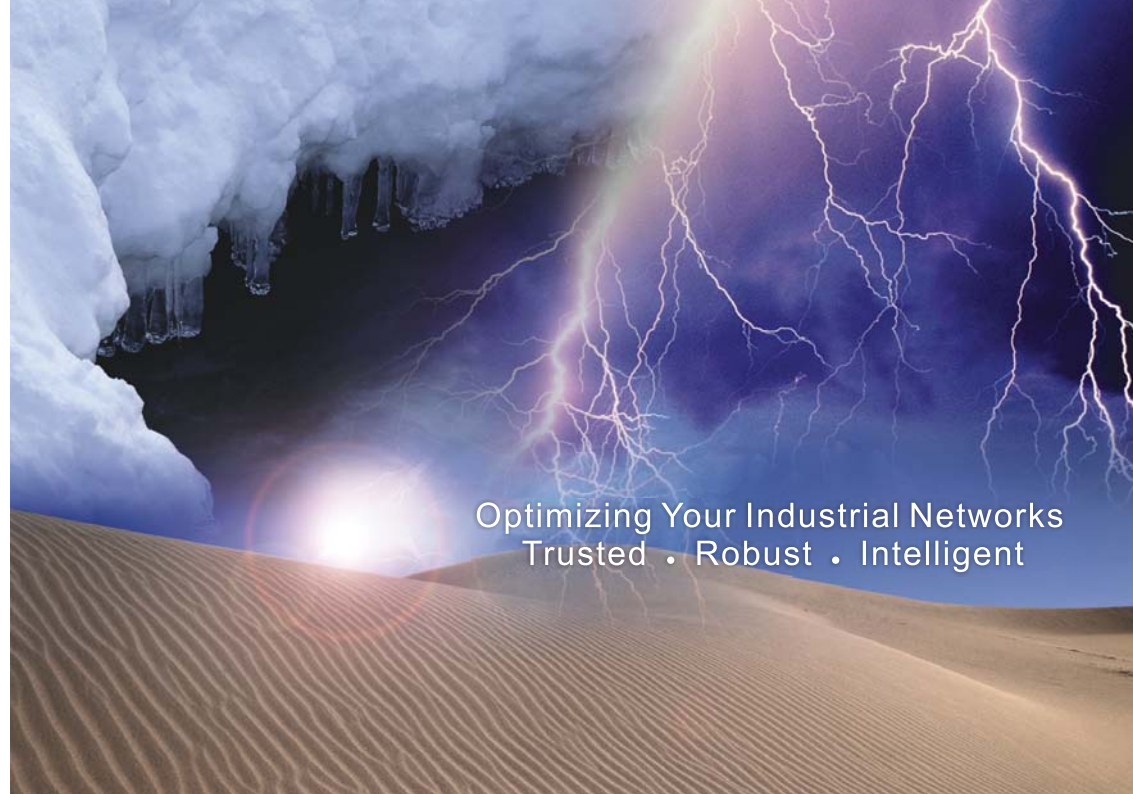
Delta Greentech (Brasil) S.A
Sao Paulo Office
Rua Itapeva, 26 - 3º andar Edificio Itapeva One-Bela Vista
01332-000-São Paulo-SP-Brazil
TEL: +55 11 3568-3855 / FAX: +55 11 3568-3865

Europe

Deltronics (The Netherlands) B.V.
Eindhoven Office
De Witbogt 15, 5652 AG Eindhoven, The Netherlands
TEL: 31-40-2592850 / FAX: 31-40-2592851

*We reserve the right to change the information in this catalogue without prior notice.

DVS_C_EN_20120411



Optimizing Your Industrial Networks
Trusted . Robust . Intelligent

Automation for a Changing World

Delta Unmanaged Industrial Ethernet Switches DVS Series



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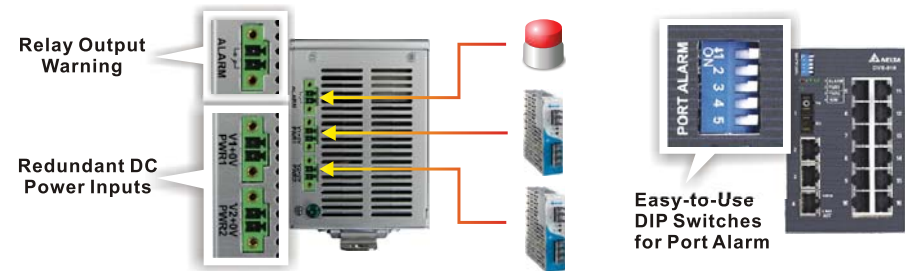


DVS Ethernet Switches Deliver Best Performance for Any Industrial Environment

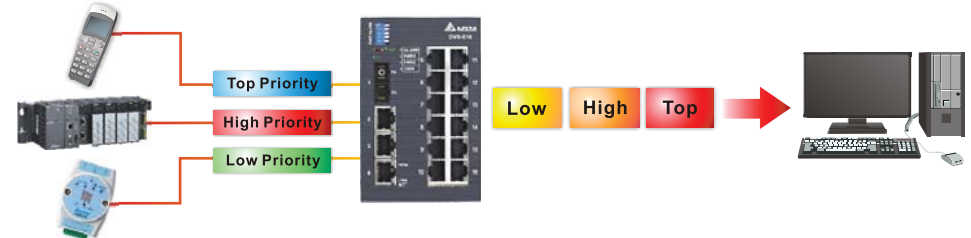
DVS-005/008/016 series are industrial Ethernet switches that support IEEE 802.3 10Base-T and IEEE 802.3u 100Base-T(X), IEEE 802.3x full/half-duplex, and auto-MDI/MDI-X, that are specifically designed for harsh and hazardous industrial environments. DVS-005/008/016 switches offer excellent ruggedized hardware design with 12 to 48 VDC redundant power inputs and a wide operating temperature range of -40°C to 75°C (except DVS-005100) without the use of internal fans, providing superior reliability. DIP switches for built-in alarm relay function, assist network engineers with notification when port link-down and power failures occur. In addition, for the best network performance, broadcast storm protection can ensure high network bandwidth. The switches require no setup and start operating immediately as soon as they are powered up, and are easily installed with industrial grade DIN-RAIL and wall mounting. DVS-005/008/016 switches comply with UL, CE and FCC standards, to guarantee reliable transmission in heavy electrical surge and EMI environments.



UL508 Industrial Control Equipment Approval, Higher ESD, Surge and EMI Protection



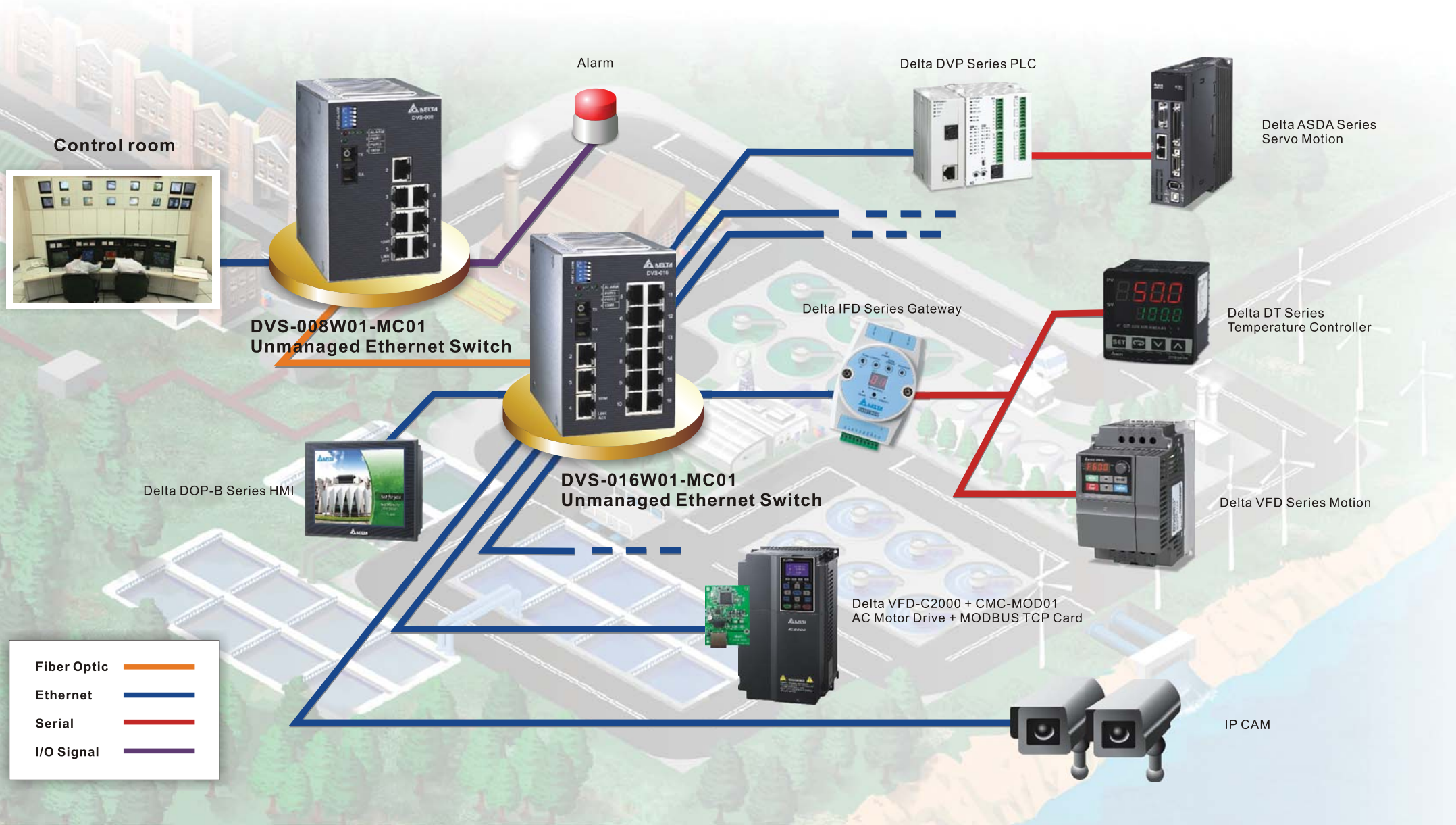
IEEE 802.1p based QoS



Features

- Complete Ethernet configurations of 5/8/16 ports with fiber optics
- 10/100Mbps in full/half-duplex, auto MDI/MDI-X, auto negotiation
- Supports IEEE 802.1p based QoS
- Transparent forwarding VLAN tagged packets
- Strong broadcast storm protection
- Supplies wide range 12 to 48VDC redundant power inputs
- Industrial hardened design of -40°C to 75°C (-40°F to 167°F) wide operating temperature
- Auto warning by relay output when port link-down and power failures
- Fanless, IP30 protection rugged aluminum case
- Flexible industrial DIN-RAIL and wall mounting installation
- Certified by UL, CE and FCC standards

Application



Specifications

TECHNOLOGY	
Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-T(X) and 100Base-FX, 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
ETHERNET PERFORMANCE	
Switching Capacity	DVS-005 Series: 1Gbps; DVS-008 Series: 1.6Gbps; DVS-016 Series: 3.2Gbps, wire-speed, non-blocking switching fabric
Forwarding Rate	DVS-005 Series: 1.5Mpps; DVS-008 Series: 2.4Mpps; DVS-016 Series: 4.8Mpps
MAC Address Table	DVS-005 series: 1K MAC addresses; DVS-008/016 series: 8K MAC addresses
Packet Buffer Memory	DVS-005 series: 512K bits; DVS-008/016 series: 1M bits
Broadcast Storm Protection	Default Enabled(DVS-008/016 series)
Transparent Forwarding VLAN Tagged Packets	Default Enabled(DVS-008/016 series)
Class of Service	IEEE 802.1p based QoS(priority queuing--CoS, QoS, ToS/DS)(DVS-008/016 series)
INTERFACE	
Ethernet Ports	RJ45 Ports: 10/100Base-T(X), auto MDI/MDI-X, auto negotiation Fiber Optic Ports: 100Base-FX(SC/ST connector), MultiMode or SingleMode
LED Indicators	Per Unit: Power Status(PWR1,PWR2), ALARM Per Port: LINK/ACT, 100M(TP port), 100M(fiber port)
DIP Switches	Port link-down alarm configuration
Alarm Contact	1 relay output with current carrying capacity 5A@24VDC
POWER REQUIREMENTS	
Input Voltage	24VDC(12 to 48VDC) redundant inputs by terminal block
Power Consumption	DVS-005: 3.4W Max. 0.14A@24VDC DVS-008: 4.4W Max. 0.18A@24VDC DVS-016: 7.2W Max. 0.3A@24VDC
Overload Current Protection	3.5A
Reverse Polarity Protection	Present
PHYSICAL	
Housing	IP30 protection, aluminum metal case
Dimensions	DVS-005 series: 145.3mm(H) x 45mm(W) x 108.7mm(D) (5.7"1.8"4.3 in) DVS-008/016 series: 145.3mm(H) x 75mm(W) x 108.7mm (D)(5.7"3"4.3 in)
Weight	DVS-005 series: 300g; DVS-008 series: 430g; DVS-016 series:490g
Installation	Industrial DIN-RAIL and wall mounting
ENVIRONMENTAL LIMITS	
Operating Temperature	DVS-005I00: -10°C to 60°C(14°F to 140°F) DVS-005/008/016W series: -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)
APPROVALS	
Safety	UL508 UL60950-1 IEC 61131-2
EMI	FCC Part 15, Class A IEC 61000-6-4, CE/EN55022 IEC 61000-4-2(ESD), level 3
EMS	IEC 61000-4-3(RS), level 3 IEC 61000-4-4(Burst), level 4 IEC 61000-4-5(Surge), level 3 IEC 61000-4-6(CS), level 3 IEC 61000-4-8(PFMF), 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

Specifications

Fiber Optics

	100Base-FX	
	MultiMode	SingleMode
Wavelength	1310nm	1310nm
Max TX power	-14dBm	-8dBm
Min TX power	-20dBm(1) / -22.5dBm(2)	-15dBm
RX Sensitivity	-31dBm	-31dBm
Optic Budget	11dBm(1) / 8.5dBm(2)	16dBm

(1) 62.5/125µm fiber optic cable
(2) 50/125µm fiber optic cable

Order Codes

DVS-0

Ethernet Ports Operating Temperature Alarm Contact Fiber Type Fiber Ports

Ethernet Ports		Operating Temperature		Alarm Contact		Fiber Type		Fiber Ports	
05	5 ports	I	-10°C to 60°C	00	None	MC	SC type, MultiMode,5km	01	1 port
08	8 ports	W	-40°C to 75°C	01	Available	MT	ST type, MultiMode,5km		
16	16 ports					SC	SC type, SingleMode,30km		
						ST	ST type, SingleMode,30km		

Ordering Information

Available		Port Combination				
Part Number	Operating Temperature	10/100Base-T(X)	100Base-FX			ST type, SingleMode
			SC type, MultiMode	SC type, SingleMode	ST type, MultiMode	
DVS-005I00	-10°C to 60°C	5	---	---	---	---
DVS-005W01	-40°C to 75°C	5	---	---	---	---
DVS-005W01-MC01	-40°C to 75°C	4	1	---	---	---
*DVS-005W01-MT01	-40°C to 75°C	4	---	---	1	---
*DVS-005W01-SC01	-40°C to 75°C	4	---	1	---	---
*DVS-005W01-ST01	-40°C to 75°C	4	---	---	---	1
DVS-008W01	-40°C to 75°C	8	---	---	---	---
DVS-008W01-MC01	-40°C to 75°C	7	1	---	---	---
*DVS-008W01-MT01	-40°C to 75°C	7	---	---	1	---
*DVS-008W01-SC01	-40°C to 75°C	7	---	1	---	---
*DVS-008W01-ST01	-40°C to 75°C	7	---	---	---	1
DVS-016W01	-40°C to 75°C	16	---	---	---	---
DVS-016W01-MC01	-40°C to 75°C	15	1	---	---	---
*DVS-016W01-MT01	-40°C to 75°C	15	---	---	1	---
*DVS-016W01-SC01	-40°C to 75°C	15	---	1	---	---
*DVS-016W01-ST01	-40°C to 75°C	15	---	---	---	1

*Available in Q4, 2012