

Introduccion a switches HIKVISION

CONTENIDO



Vista general



Introducción a los Productos



Aplicaciones

Networking classification

Access layer



Aggregation layer

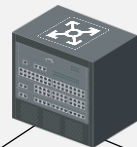


Core layer

Core layer

Delivering optimized, reliable backbone transport structures with higher performance and throughput with high-speed forwarding communications

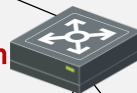
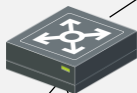
Core switch



Aggregation layer

Multiple access layer switch convergence point and providing an uplink to the core layer

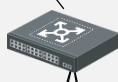
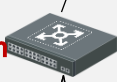
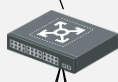
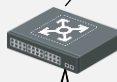
Aggregation switch



Access layer

Connecting directly to end users, like IPC, access switches with low cost and high-end port density characteristics

Access switch

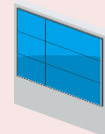
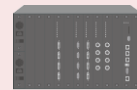


xx Area

Front-End Devices

xx Area

Display & Control



Storage Center



Sever





PRODUCT INTRODUCTION

Unmanaged switch

Managed switch

L3 switch

Industrial switch

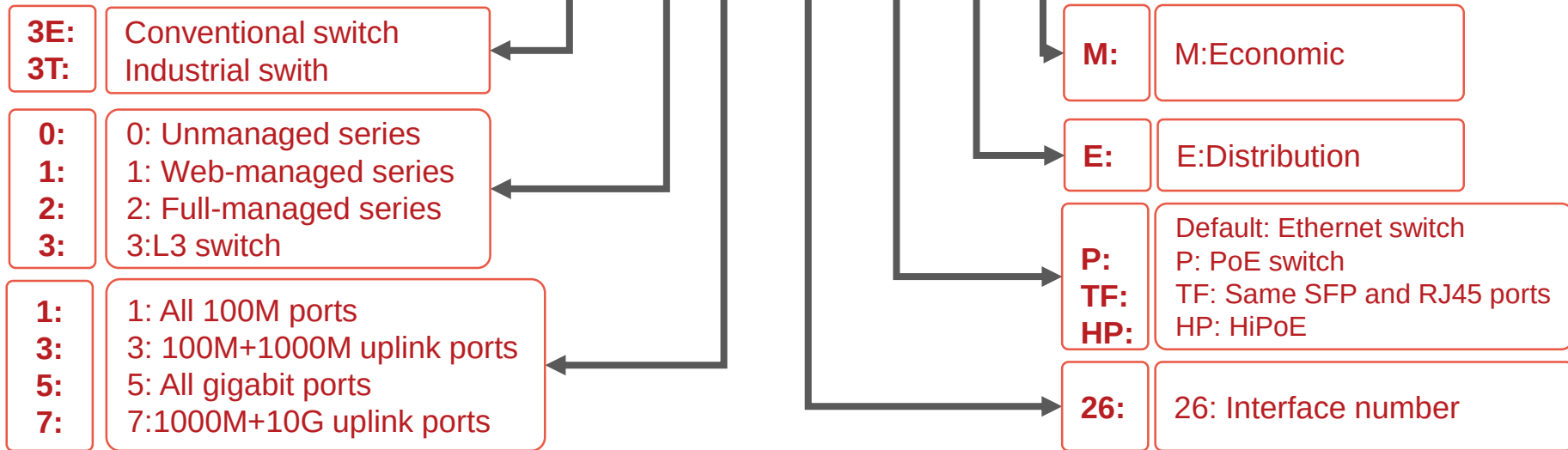
Product family

L3	1000M +10G		DS-3E3740 DS-3E3756TF		
L2, Managed	1000M	NEW 			
	100M				
L2, Unmanaged	1000M	NEW 			NEW 
	100M	NEW 	NEW 	NEW 	NEW 



Naming rule

DS-3E 2 3 26 P-E/M



Unmanaged switch

L3

1000M
+10G



DS-3E3740
DS-3E3756TF

L2, Managed

1000M



DS-3E25xxP (PoE, Full)



DS-3E2528 (None PoE, Full)

100M



DS-3E13xxP-E (PoE, Web)



DS-3E23xxP (PoE, Full)

L2, Unmanaged

1000M



DS-3E05xxP-E (PoE)



DS-3E05xx-E (None PoE)



DS-3E0524TF



DS-3E05xxD-E
(Desktop)

100M



DS-3E01(3)xxP-E(B)
(PoE)



DS-3E01(3)xxP-E/M(B)
(PoE, Value)



DS-3E01(3)xxHP-E
(HiPoE)



DS-3E01xxD-E
(Desktop)



DS-3T03xxP
(Industrial)

Unmanaged switch

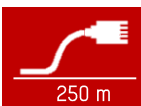
Highlights

PoE

AF/AT/BT

Designed for higher PoE power supply

Simple and convenient power supply



250 m long distance PoE transmission

Long distance PoE can reduce network investment, simplify network, expand network ability.



VIP port transmission priority

Unique VIP port technology guarantees important video stream can be preferentially forwarded



8-core stable and reliable power supply

8-core power supply provides much more stable power and reduces the power loss during the transmission



Hardware surge protection

Up to 6 KV to prevent damage in multiple situations



* Some models may not Support this feature. Please see the specification for details.

Unmanaged switch

Highlights- Designed for higher PoE power supply

PoE

AF/AT/BT

IEEE 802.3 af/at/bt supported at access ports;

Adaptive power supply mode dynamically supplies fluctuating camera power requirements

- Saving power adapters by PoE power supply



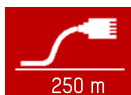
Traditional switch



Hikvision switch

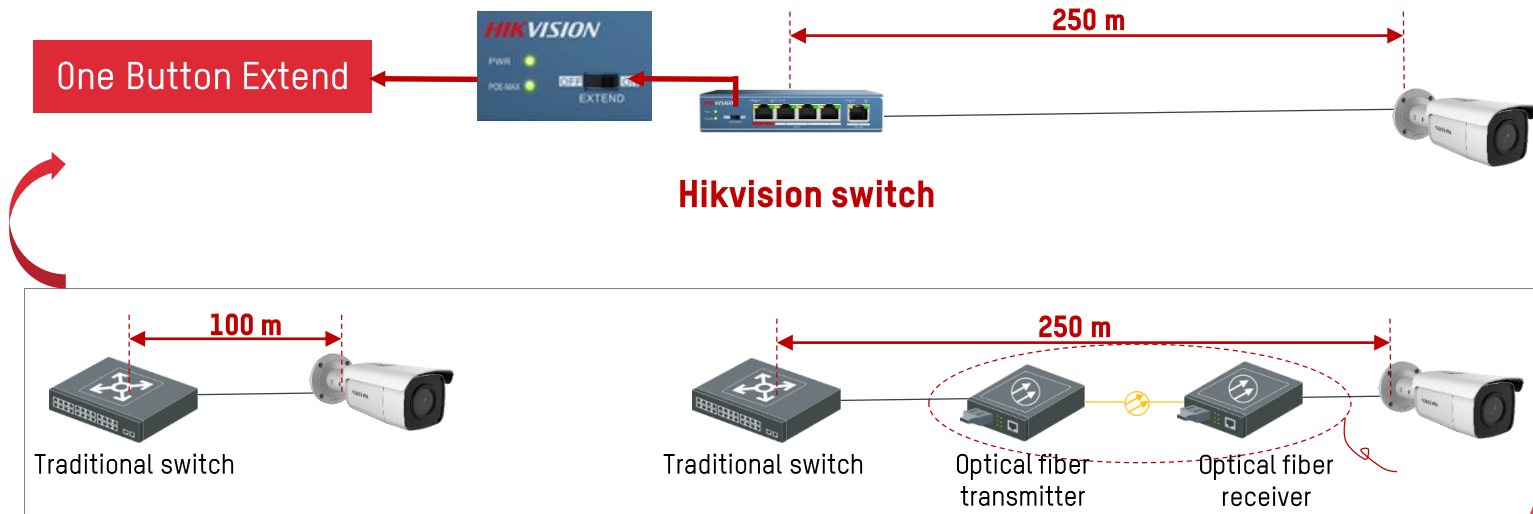
Unmanaged switch

Highlights- 250 m long distance transmission



One button initiates long distance transmission of up to 250 meters

- Saving optic fiber devices and optical fibers
- Solving the traditional limitation of 100 m transmission



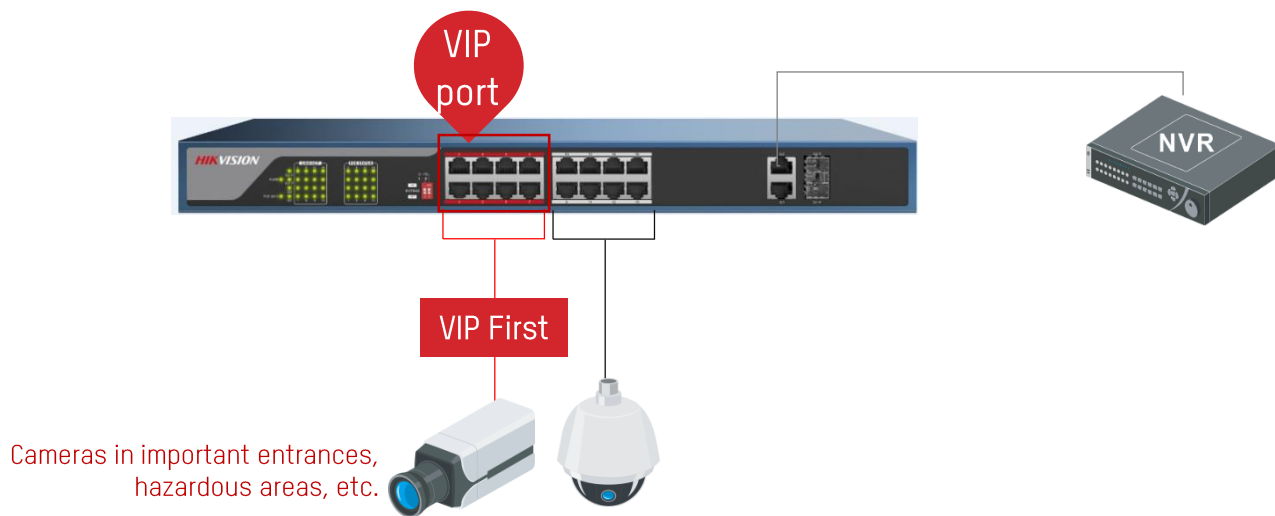
Unmanaged switch

Highlights- VIP port transmission priority



VIP port with transmission priority ensures signal stability and video fluency greater; Surveillance quality insurance for critical and sensitive area monitoring

- Ensuring priority and stable transmission of critical surveillance video



Unmanaged switch

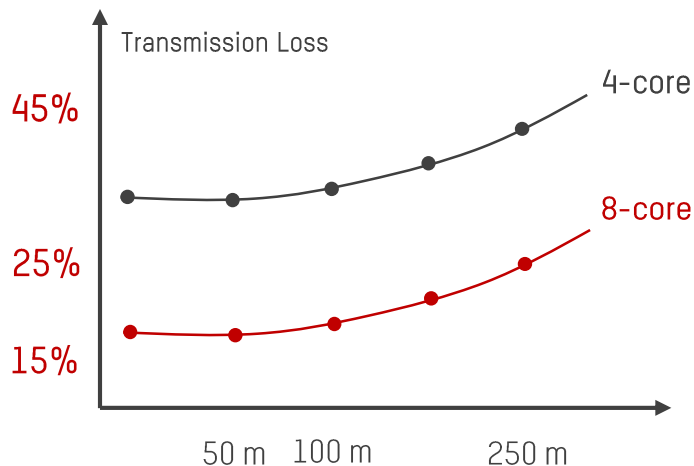
Highlights- 8-core stable and reliable power supply



PoE 8-core power supply

More stable and reliable than traditional 4-core POE switches;

- Reducing transmission loss
- Ensuring sufficient power for camera infrared switching at night



PoE standard	Length of cable	Transmission loss	
		4-core	8-core
IEEE802.3af	100	0.69 W	0.42 W
	250	1.74 W	1.14 W
IEEE802.3at	100	2.565 W	1.71 W
	250	6.27 W	4.104 W

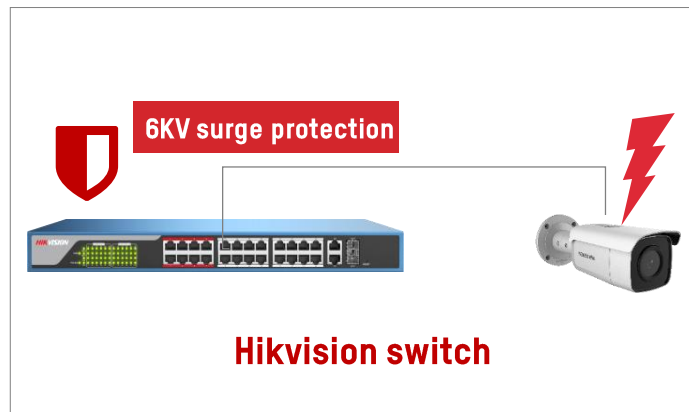
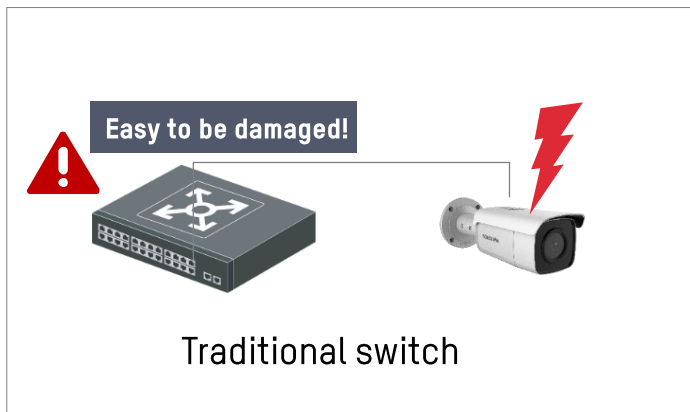
Unmanaged switch

Highlights- 6 KV Surge Protection



Preventing the switch from being damaged by unstable voltage, the higher the protection level, the higher the switch stability

- Protecting switches from damages



Unmanaged Switch

Gigabit Unmanaged PoE



DS-3E0505/10/18/26P-E

Highlights



All gigabit ports to provide high speed transmission



802.3 af & at high POE power supply



Safe and reliable by 6 KV high surge protection

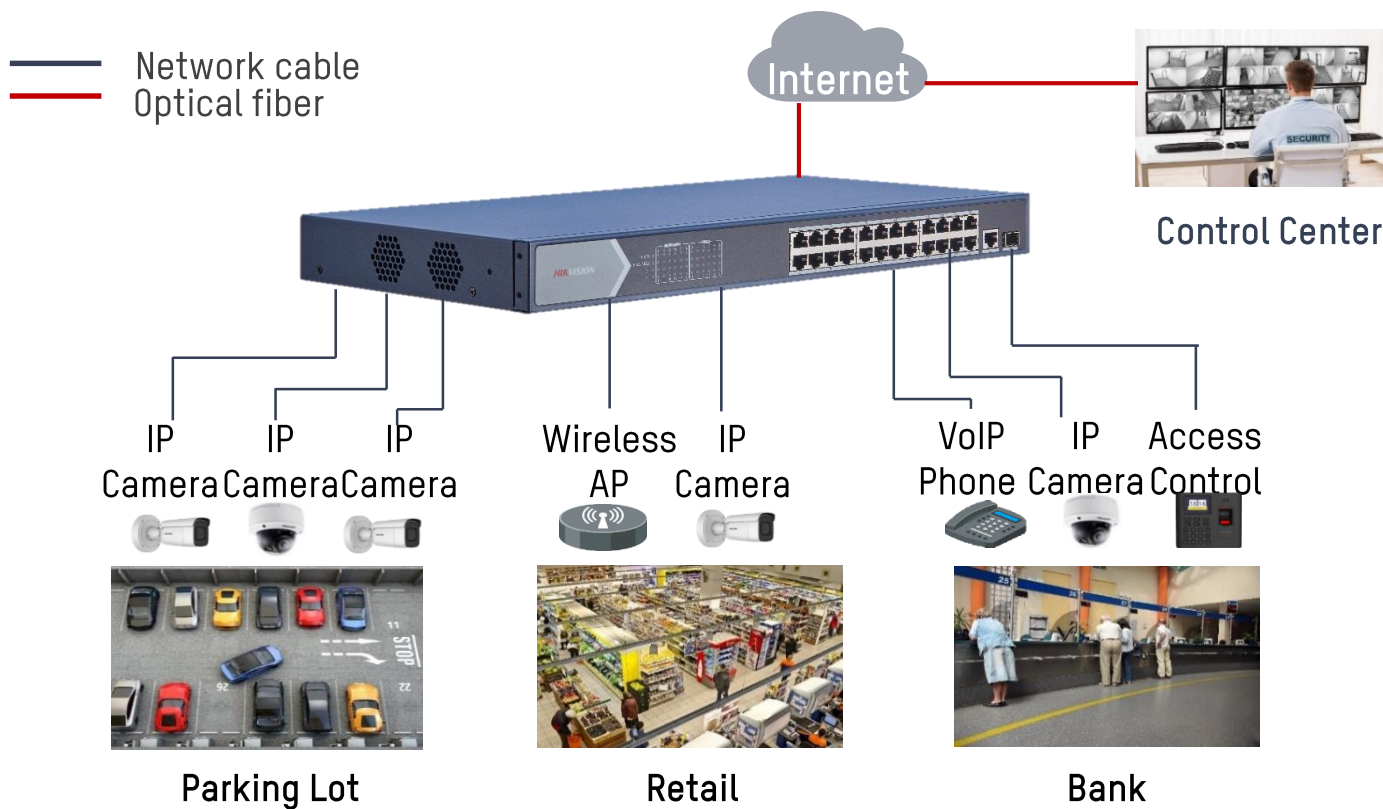


Simple and convenient by plug and play

Model	DS-3E0505P-E	DS-3E0510P-E	DS-3E0518P-E	DS-3E0526P-E
Ports	4*Gigabit PoE RJ45 1*Gigabit RJ45	8*Gigabit PoE RJ45 1*Gigabit RJ45 1*Gigabit SFP	16*Gigabit PoE RJ45 1*Gigabit RJ45 1*Gigabit SFP	24*Gigabit PoE RJ45 1*Gigabit RJ45 1*Gigabit SFP
PoE power budget	60 W	110 W	230 W	370 W

Unmanaged Switch

Gigabit Unmanaged PoE



Unmanaged Switch

Gigabit Unmanaged



DS-3E0508/16/24-E



DS-3E0524TF

Highlights



All **gigabit ports** to provide high speed transmission



Recommended for **aggregation layer**
≤100-ch IPC project



Safe and reliable by **4 KV** high surge protection



Simple and convenient by **plug and play**

Model	DS-3E0508-E	DS-3E0516-E	DS-3E0524-E	DS-3E0524TF
Ports	8*Gigabit RJ45	16*Gigabit RJ45	24*Gigabit RJ45	12*Gigabit RJ45 12*Gigabit SFP

Unmanaged Switch

10/100Mbps Dual Uplink Unmanaged HiPoE



DS-3E0106HP-E
DS-3E0310HP-E

Highlights



Two uplink ports designed for CCTV

* One for NVR, one for Internet



250 m long-distance transmission



VIP port transmission priority



Safe and reliable by 6 KV high surge protection



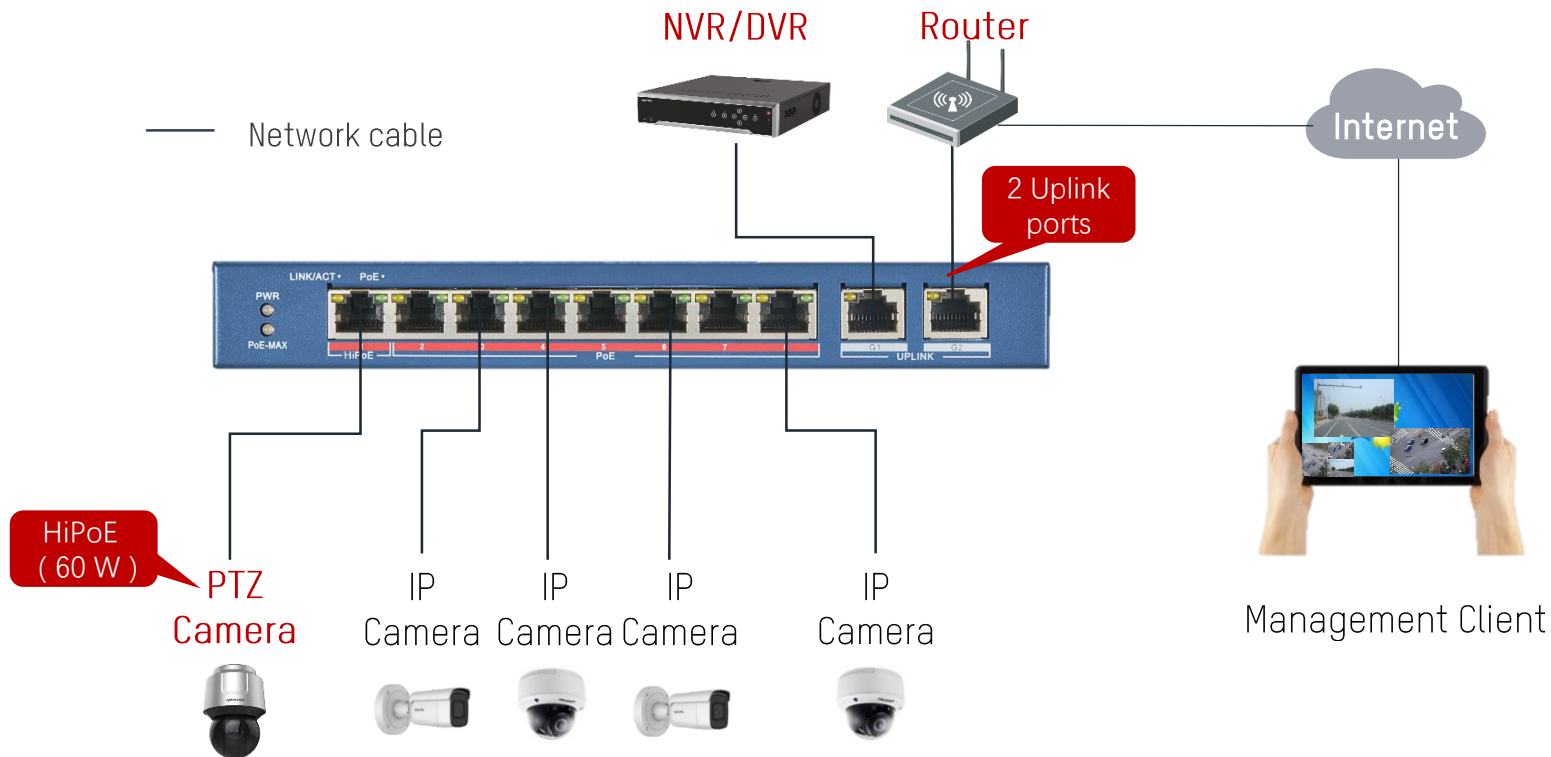
802.3af & 802.3bt HiPoE power supply

- 802.3bt standard compatible with other standard HiPoE devices
- Only port 1 support 802.3bt

Model	DS-3E0106HP-E	DS-3E0310HP-E
Ports	1*10/100 Mbps HiPoE 3*10/100 Mbps PoE 2*10/100 Mbps uplink RJ45	1*10/100 Mbps HiPoE 7*10/100 Mbps PoE 2*Gigabit uplink RJ45
PoE power budget	60 W	110 W
PoE extend mode	Max 250 m, Port 1-4	Max 250 m, Port 1-8

Unmanaged Switch

10/100Mbps Dual Uplink Unmanaged **HiPoE**



Unmanaged Switch

10/100Mbps Unmanaged PoE



DS-3E0105/09P-E(B)
DS-3E0318/26P-E(B)

Highlights



802.3 af & at high POE power supply



250 m long-distance transmission



VIP port transmission priority



Safe and reliable by 6 KV high surge protection



Stable without downtime by 8-core power supply

Model	DS-3E0105P-E(B)	DS-3E0109P-E(C)	DS-3E0318P-E(B)	DS-3E0326P-E(B)
Ports	4*100M PoE RJ45 1*100M uplink RJ45 port	8*100M PoE RJ45 1*100M uplink RJ45	16*100M PoE RJ45 2*Gigabit comb	24*100M PoE RJ45 2*Gigabit comb
PoE power budget	60 W	115 W	230 W	370 W
PoE extend mode	Max 250 m, Port 1-4	Max 250 m, Port 1-8	Max 250 m, Port 1-16	Max 250 m, Port 1-24

Unmanaged Switch

10/100Mbps Unmanaged PoE (Value)



DS-3E0105/09P-E/M(B)
DS-3E0318/26P-E/M(B)

Highlights



802.3 af & at high POE power supply



250 m long-distance transmission



VIP port transmission priority



Safe and reliable by 6 KV high surge protection



Stable without downtime by 8-core power supply

Model	DS-3E0105P-E/M(B)	DS-3E0109P-E/M(B)	DS-3E0318P-E/M(B)	DS-3E0326P-E/M(B)
Ports	4*100M PoE RJ45 1*100M uplink RJ45	8*100M PoE RJ45 1*100M uplink RJ45	16*100M PoE RJ45 1*Gigabit uplink RJ45 1*Gigabit uplink SFP	24*100M PoE RJ45 1*Gigabit uplink RJ45 1*Gigabit uplink SFP
PoE power budget	35 W	60 W	130 W	230 W
PoE extend mode	Max 250 m, Port 1-4	Max 250 m, Port 1-8	Max 250 m, Port 9-16	Max 250 m, Port 17-24

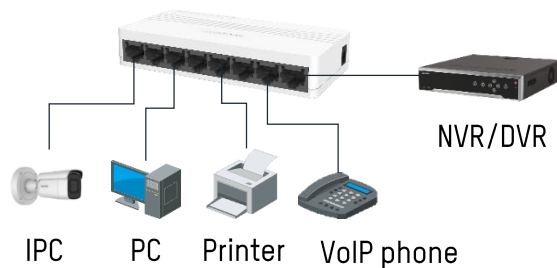
Unmanaged Switch

10/100Mbps & Gigabit Unmanaged Desktop



DS-3E0105/08D-E
DS-3E0505/08D-E

Plastic case Desktop design Plug and play



Widely used in home, office and other small space environments

Model	DS-3E0105D-E	DS-3E0108D-E	DS-3E0505D-E	DS-3E0508D-E
Ports	5*10/100Mbps RJ45	8*10/100Mbps RJ45	5*Gigabit RJ45	8*Gigabit RJ45



Optical module



HK-SFP-1.25G-20-1310
HK-SFP-1.25G-20-1550

1.25G, LC, single mode and single fiber, 20 km
(Pair of each other)



HK-SFP-1.25G-20-1310-DF

1.25G, LC, Single mode and duplex fiber, 20 km



HK-SFP-1.25G-1310-DF-MM

1.25G, LC, Multi mode and duplex fiber, 1 km



HK-SFP+-10G-20-1270
HK-SFP+-10G-20-1330

10G, LC, single mode and single fiber, 20 km
(Pair of each other)

Optical mode

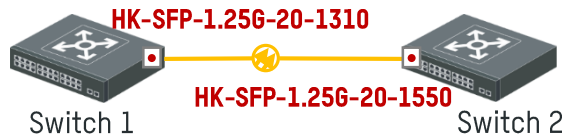
1.25G (Gigabit)	10G (10G)
20 km	20 km

Single mode
For long distance

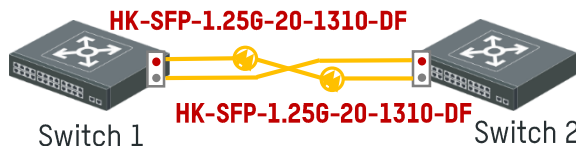
1.25G (Gigabit)
1 km

Multi mode
For short distance

Fiber mode



Single fiber
(Use the paired optical module)



Duplex fiber
(No pairing required)

Managed switch

L3	1000M +10G		DS-3E3740 DS-3E3756TF						
L2, Managed	1000M		DS-3E25xxP (PoE, Full)		DS-3E2528 (None PoE, Full)				
	100M		DS-3E13xxP-E (PoE, Web)		DS-3E23xxP (PoE, Full)				
L2, Unmanaged	1000M		DS-3E05xxP-E (PoE)		DS-3E05xx-E (None PoE)		DS-3E0524TF		DS-3E05xxD-E (Desktop)
	100M		DS-3E01(3)xxP-E(B) (PoE)		DS-3E01(3)xxP-E/M(B) (PoE, Value)		DS-3E01(3)xxHP-E (HiPoE)		DS-3E01xxD-E (Desktop)
									DS-3T03xxP (Industrial)

Managed Switch

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Gigabit Full-managed



DS-3E2528



DS-3E2510/28P

Highlights



All **gigabit ports** to provide high speed transmission



Rich **layer 2 features**

Support STP, VLAN, mirroring, IGMP Snooping and IGMP v1/v2, L2/L3/L4 ACL, LACP, EAPS, ERPS, Qos



Multiple **management mode**

Support console, Telnet, SSH2.0, Web, SNMP v1/v2/v3, TFTP, RMON



802.3 af & at high POE power supply
[*DS-3E2510/28P]



Safe and reliable by **4 KV** high surge protection



Recommended for **core or aggregation layer** ≤150-ch IPC project

Model	DS-3E2510P	DS-3E2528P	DS-3E2528
Ports	8*Gigabit PoE RJ45 2 *Gigabit SFP	24*Gigabit PoE RJ45 4 *Gigabit SFP	24*Gigabit RJ45 4*Gigabit SFP
PoE power budget	125 W	380 W	Not support

Managed Switch

10/100Mbps Full-managed



DS-3E2310/18/26P

Highlights



Rich layer 2 features

Support STP, VLAN, mirroring, IGMP Snooping and IGMP v1/v2, L2/L3/L4 ACL, LACP, EAPS, ERPS, Qos



Multiple management mode

Support console, Telnet, SSH2.0, Web, SNMP v1/v2/v3, TFTP, RMON



802.3 af & at high POE power supply



Safe and reliable by 4 KV high surge protection

Model	DS-3E2310P	DS-3E2318P	DS-3E2326P
Ports	8*10/100Mbps POE RJ45 2*Gigabit combo	16*10/100Mbps POE RJ45 2*Gigabit combo	24*10/100Mbps POE RJ45 2*Gigabit combo
PoE power budget	125 W	300 W	380 W

Managed Switch

10/100Mbps Web-managed



DS-3E1310/18/26P-E

Highlights



Rich **layer 2** features

Support VLAN, Port trunk, STP/RSTP, multicast and port mirroring, QoS, SNMP, IGMP Snooping and IGMP v1/v2



Friendly and convenient **web management**



802.3 af & at high POE power supply



250 m long-distance transmission



VIP port transmission priority



Safe and reliable by **4 KV** high surge protection

Model	DS-3E1310P	DS-3E1318P	DS-3E1326P
Ports	8*10/100Mbps POE RJ45 2*Gigabit combo	16*10/100Mbps POE RJ45 2*Gigabit combo	24*10/100Mbps POE RJ45 2*Gigabit combo
PoE power budget	123 W	230 W	370 W
PoE extend mode	Max. 250m, Port 1-8	Max. 250m, Port 1-16	Max. 250m, Port 1-24



L3 switch

L3	1000M +10G	 DS-3E3740 DS-3E3756TF			
	1000M	 DS-3E25xxP (PoE, Full)	 DS-3E2528 (None PoE, Full)		
L2, Managed	100M	 DS-3E13xxP-E (PoE, Web)	 DS-3E23xxP (PoE, Full)		
	1000M	 DS-3E05xxP-E (PoE)	 DS-3E05xx-E (None PoE)	 DS-3E0524TF	 DS-3E05xxD-E (Desktop)
L2, Unmanaged	100M	 DS-3E01(3)xxP-E(B) (PoE)	 DS-3E01(3)xxP-E/M(B) (PoE, Value)	 DS-3E01(3)xxHP-E (HiPoE)	 DS-3E01xxD-E (Desktop)
					 DS-3T03xxP (Industrial)

L3 Switch



DS-3E3740
DS-3E3756TF

Model	DS-3E3740	DS-3E3756TF
Ports	32*Gigabit RJ45 8*10G SFP+	24*Gigabit RJ45 24*Gigabit SFP 8*10G SFP+

Protocol Features

1

Rich **dynamic routing** protocol

RIP, BGP, OSPF, IS-IS, RIP, PIM-DM, PIM-SM

2

Policy Based Routing

Support policy routing based on IP

3

Redundant backup

Support VRRP protocol

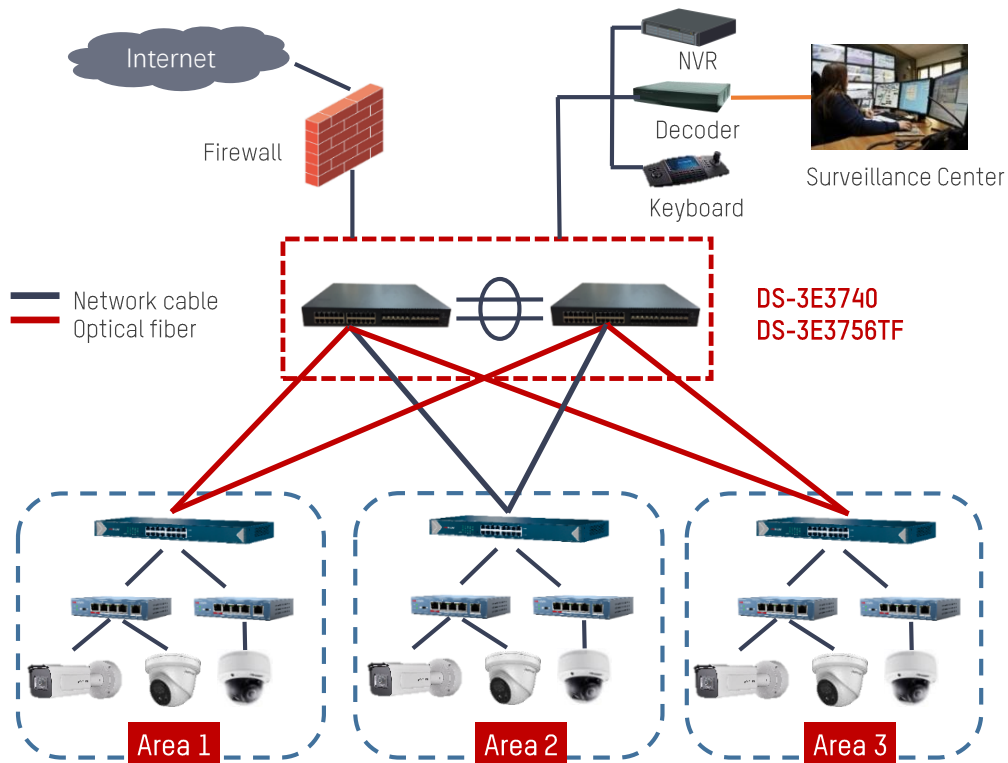
4

Multiple management mode

SNMP v1/v2/v3, Console, Telnet, SSH2.0, Web, TFTP, RMON



L3 Switch



Highlights

- Used for **core or aggregation layer**
- DS-3E3740 : **≤500-ch** IPC project
- DS-3E3756TF : **≤400-ch** IPC project
- Data center access

Industrial switch

L3	1000M +10G		DS-3E3740 DS-3E3756TF										
Managed	1000M		DS-3E25xxP (PoE, Full)			DS-3E2528 (None PoE, Full)							
	100M		DS-3E13xxP-E (PoE, Web)			DS-3E23xxP (PoE, Full)							
Unmanaged	1000M		DS-3E05xxP-E (PoE)			DS-3E05xx-E (None PoE)			DS-3E0524TF			DS-3E05xxD-E (Desktop)	
	100M		DS-3E01(3)xxP-E(B) (PoE)			DS-3E01(3)xxP-E/M(B) (PoE, Value)			DS-3E01(3)xxHP-E (HiPoE)			DS-3E01xxD-E (Desktop)	
												DS-3T03xxP (Industrial)	



Industrial Switch



Highlights



Wide operating temperature: **-40°C** to **+75°C**
Outdoor use supported



IEEE 802.3af/at PoE standard
Support maximum PoE output 30W per port



IP40 all metal casing
Supporting dust-proof and long life time

DS-3T0306P
DS-3T0310P

Model	DS-3T0306P	DS-3T0310P
Ports	4* 100M POE RJ45 2* Gigabit SFP	8* 100M POE RJ45 2* Gigabit SFP

150W Industrial Switch Power Supply



ELG-150-48A
(Optional)

Wide voltage range:
Input 100-305 VAC/142-431 VDC ;
Output 48 VDC, 3.13 A

IP65
Designing for outdoor use

Outdoor Scenarios



Surveillance Center





APPLICATION SOLUTIONS



Application Solutions

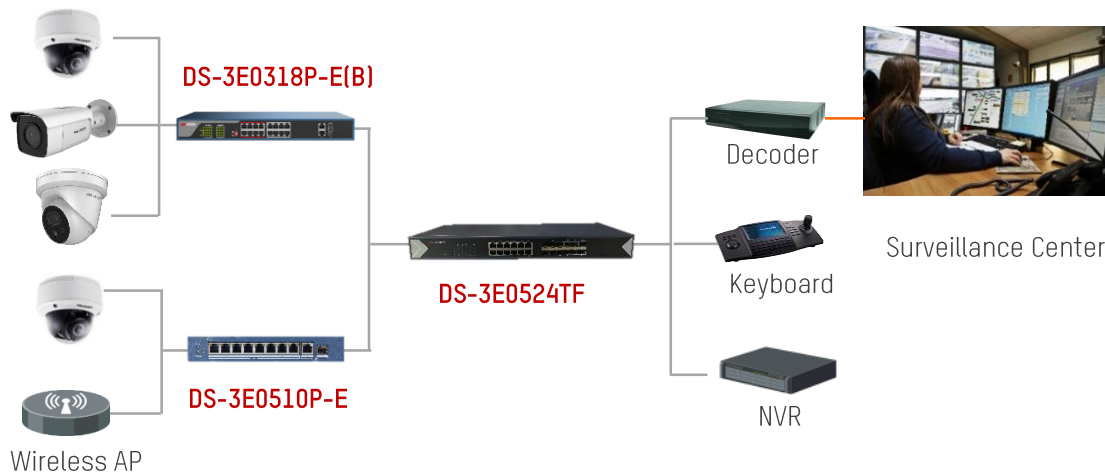
Smart Solution for Retails

Security, cost effective, easy installation and maintenance are key points for Retails.

Hikvision smart solution for convenience stores provides high reliability and cheap investment.



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≤ 100-ch IPC		
Recommended options	Type	Model
	Aggregation switch	DS-3E0524TF
	Access switch	DS-3E01(3)xxP-E(B)
	Access switch	DS-3E01(3)xxP-E/M(B)
	Access switch	DS-3E05xxP-E
	Access switch	DS-3E05xx-E
	Optical module	HK-SFP-1.25G-1310-DF-MM

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ROSARIO SEGURIDAD • SOCIO DISTRIBUIDOR

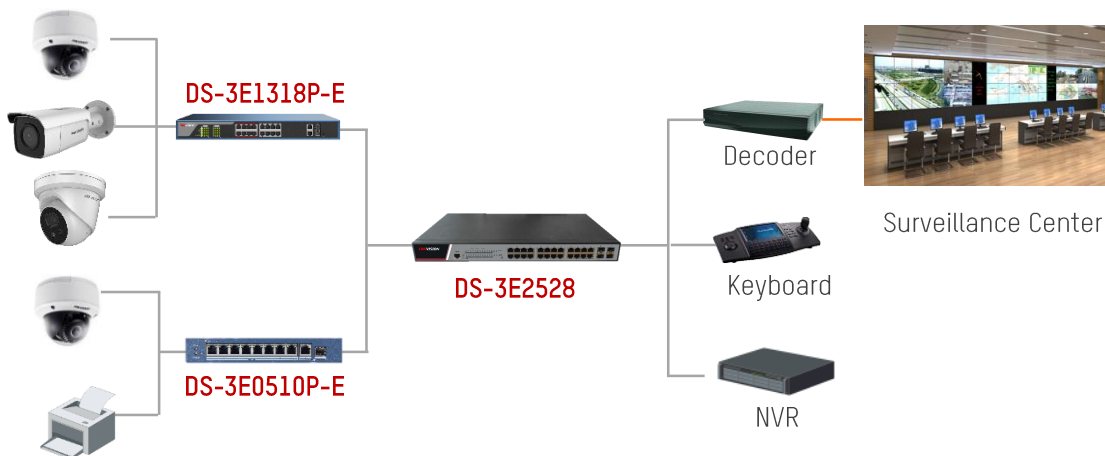
Application Solutions

Smart Solution for Hotels

Hotels have a large turnover of people. In order to better manage various service and ensure safety, so we need to build a secure and stable network and transfer 24-hour monitoring data.



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100-ch < IPC ≤ 300-ch

Recommended options	Type	Model
	Aggregation switch	DS-3E2528
	Access switch	DS-3E13xxP-E
	Access switch	DS-3E01(3)xxP-E(B)
	Access switch	DS-3E05xxP-E
	Access switch	DS-3E05xx-E
	Optical module	HK-SFP-1.25G-20-1310 HK-SFP-1.25G-20-1550

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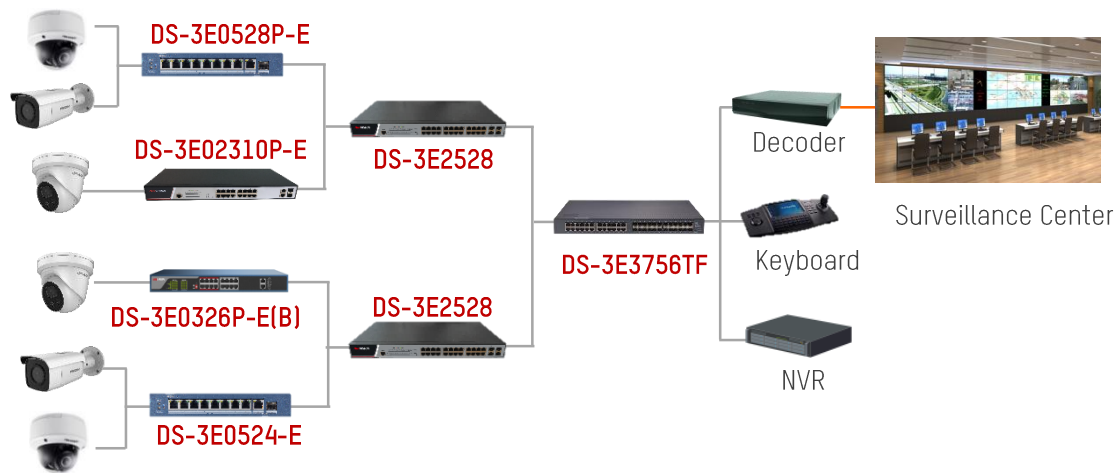
Application Solutions

Smart Solution for Buildings

Large building centers integrate companies, shopping malls, restaurants and warehouses, etc. They have a large flow of people and a high demand for monitoring. Therefore, a network capable of handling large amounts of data is necessary.



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300-ch < IPC ≤ 500-ch		
Recommended options	Type	Model
	Core switch	DS-3E3756TF
	Core switch	DS-3E3740
	Aggregation switch	DS-3E2528
	Access switch	DS-3E23xxP-E
	Access switch	DS-3E01(3)xxP-E(B)
	Access switch	DS-3E05xxP-E
	Optical module	HK-SFP-1.25G-20-1310 HK-SFP-1.25G-20-1550

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