

## **Product Highlights**

#### **Easy Management**

A multilingual Web UI, a Full CLI, and a variety of management features allow the switches to integrate with your existing network

#### **Expand your Network**

All models include high-speed 4 x 10G SFP+ uplink ports enabling easy expansion of your network

#### **Power over Ethernet**

Support for IEEE 802.3af/at and a higher PoE budget allow the PoE models in the series to power more devices with greater port density



## **DGS-1250 Series**

# **Smart Managed Switches**

## **Features**

#### **Green Technology**

- Link status detection
- Port and LED shut-off
- System hibernation
- Time-based PoE (PoE models only)

#### **Security Features**

- Access Control Lists (ACLs)
- D-Link Safeguard Engine helps the CPU resist broadcast/multicast/unicast flooding
- Port Security supports up to 64 MAC addresses per port
- ARP Spoofing Prevention
- MPB Support

#### Intuitive Management

- D-Link Network Assistant (DNA) utility or multilingual
- Web UI
- Built-in SNMP MIB for remote NMS (D-View 7.0)
- Full command line support via console port

#### **Advanced Features**

- Static routing
- Surveillance Mode
- Auto Voice VLAN
- Dual software images
- Dual configuration files

The D-Link DGS-1250 Series Smart Managed Switches are the latest generation of switches to provide increased Power over Ethernet (PoE) output, high port density, multiple management interfaces, and advanced Layer 2 features. With all of these features combined, the DGS-1250 Series provides a cost-efficient and flexible solution for expanding any business network.

### **Seamless Integration**

The DGS-1250 Series includes a wide range of port and media types. All models in the DGS-1250 Series feature four 10G SFP+ ports, allowing you to choose the most suitable media type for your requirements. All DGS-1250 Series PoE switches include support for IEEE 802.3af/at and higher power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets. Furthermore, the DGS-1250-28XMP and DGS-1250-52XMP can supply PoE power up to 370 W providing even more power for connected devices.

#### **Advanced Features**

The DGS-1250 Series comes equipped with a complete lineup of L2 features, including IGMP snooping, port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers. The DGS-1250 Series also supports advanced features such as static routing, which allow network administrators to divide the network into VLANs, increasing network efficiency. Network maintenance features include loopback detection and cable diagnostics. Loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The cable diagnostics feature, designed primarily for administrators and customer service representatives, determines the cable quality and quickly discovers errors, allowing for swift diagnostics and maintenance.

## **Surveillance Mode**

The DGS-1250 Series supports Auto Voice VLAN and Surveillance Mode, which allows voice and video traffic to be automatically identified and handled differently than regular network traffic. Auto Voice VLAN detects Voice over IP (VoIP) traffic and automatically segments it from the rest of the network, adding a layer of isolation and allowing Quality of Service (QoS) to be applied. Surveillance Mode detects compatible ONVIF cameras and places them in a surveillance VLAN, allowing a single switch to be used for voice, video, and data, removing the need for dedicated hardware and reducing maintenance costs. Surveillance Mode also includes its own Web UI, making surveillance features easily accessible and simplifying management of your surveillance network.

## **Advanced Access Control**

D-Link's innovative Safeguard Engine helps to protect the switches against traffic flooding caused by malicious attacks. The DGS-1250 Series supports 802.1X port-based authentication, allowing clients to be authenticated through external RADIUS servers. The Access Control List (ACL) feature helps to enhance network security and helps to protect the internal IT network. The DGS-1250 Series also features Address Resolution Protocol (ARP) spoofing prevention, which helps to provide protection from attacks on the network that could allow an intruder to sniff data frames, modify traffic, or bring traffic to a halt altogether by sending fake ARP messages. To help prevent ARP spoofing attacks, the switch uses packet control ACLs to block invalid packets that contain fake ARP messages. The DHCP server screening filters DHCP replies on unauthorized ports to prevent them from being assigned an IP address.

## Versatile Management

The DGS-1250 Series comes with the D-Link Network Assistant (DNA) utility that enables administrators to remotely control their network down to the port level. The D-Link Network Assistant utility furthermore allows customers to easily discover multiple D-Link Smart Managed Switches within the same L2 network segment and display them onscreen for instant access. With this utility, users do not need to change the IP address of their PC. This allows for simultaneous configuration and setup of all discovered devices, including password changes and firmware upgrades. The DGS-1250 Series supports Command Line Interface (CLI) through console port. SNMP is also supported which allows for the central management of network assets, remote configuration, and logging functions.



## Surveillance Topology Web Interface



## **D-Link Network Assistant (DNA)**

	and a second second			e ( Online / Offline:								Q	8 81	
3		Type / Status	Auth. 🗘	System Name 0	IP Address 0	MAC	Model 🗘	SNMP	FW Ver.	SN	System Time	IP Mode	HW Ver.	Protocol Ve
4		8	ę	Switch	172.18.190.210	00-00-15-10-02-06	DGS-1510-20	-	1.20.011		2000/01/04 02:08:08	Static	Al	DDP V2 0.2
		8	ę	DGS-1210-08	172.17.7.15	c2-18-8b-0b-af-c3	DGS-1210-08	-	1.12	sn123456	2012/01/17 00:40:11	DHCP	A1	DDP V2 0.2
2		8	ę	DGS-1210-52P/ME	172.17.6.153	28-10-8b-0b-ab-c3	DGS-1210- 52P/ME		1.12	sn123456	2012/01/17 00:40:11	DHCP	A1	DDP V2 0.2
5		8	4	DGS-1210-20/ME	172.17.5.135	28-10-7b-0b-9d-95	DGS-1210-20/ME	-	1.06	sn123456	2013/01/14 15:37:00	DHCP	B1	DDP V2 0.2
)		8	ę	DGS-1210-28X/ME	182.17.7.16	22-18-8b-0b-af-83	DGS-1210- 28X/ME	-	1.12	sn123456	2012/01/17 00:40:11	DHCP	C1	DDP V2 0.2
7		8	4	DGS-1210-20P/ME	172.17.7.153	28-18-8b-0b-ab-c3	DGS-1210- 20P/ME	-	1.12	sn123456	2012/01/17 00:40:11	DHCP	A1	DDP V2 0.2
)		8	ę	DGS-1210-10	172.17.7.113	28-18-8b-0b-af-c3	DGS-1210-10		1.12	sn123456	2012/01/17 00:40:11	DHCP	B1	DDP V2 0.2
)		8	4		172.18.190.199	1c-7e-e5-29-ed-07	DGS-1500-20		2.50.008	QBH91BC000001	2012/01/08 08:55:41	Static	A1	DDP V2 0.2
)		8	ę	DGS-1210-52/ME	172.17.5.153	28-10-7b-0b-ab-c3	DGS-1210-52/ME	-	1.12	sn123456	2012/01/17 00:40:11	DHCP	Al	DDP V2 0.2
		8	4	DGS-1210-10P/ME	172.17.5.135	f0-7d-68-0f-e4-de	DGS-1210- 10P/ME	-	0.0.0.0	sn123456	2013/07/30 19:20:09	DHCP	B1	DDP V2 0.2
		8	ę	DGS-1210-20	172.17.7.111	a8-18-8b-0b-af-c3	DGS-1210-20	-	1.12	sn123456	2012/01/17 00:40:11	DHCP	Al	DDP V2 0.2
	( m	8		DGS-1210-52	172.17.7.11	a2-18-8b-0b-af-c3	DGS-1210-52	-	1.12	sn123456	2012/01/17	DHCP	B1	DDP V2 0.2

## **Technical Specifications**

Model Number	DGS-1250-28X	DGS-1250-28XMP	DGS-1250-52X	DGS-1250-52XMP					
Hardware Version									
General									
Interfaces	• 24 x 10/100/1000BASE-T	• 24 x 10/100/1000BASE-T PoE	• 48 x 10/100/1000BASE-T	• 48 x 10/100/1000BASE-T PoE					
	• 4 x 10G SFP+ ports	• 4 x 10G SFP+ ports	• 4 x 10G SFP+ ports	• 4 x 10G SFP+ ports					
Port Standards		• IEEE 802.3 10BASE-T E	thernet (twisted-pair copper)						
		• IEEE 802.3u 100BASE-TX Fa	ast Ethernet (twisted-pair copper)						
		• IEEE 802.3ab 1000BASE-T Gig	gabit Ethernet (twisted-pair copper)						
	IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic								
		IEEE 802.3az Energ	y-Efficient Ethernet (EEE)						
	IEEE 802.3x Flow Control								
	IEEE 802.3ae 10 Gigabit Ethernet								
	• IEEE 802.3af/at								
Network Cables		• UTP Cat. 5, C	at. 5e (100 m max.)						
Duplex Mode	Full/Half-duplex for 10/100 Mbps								
	Full-duplex for 1000 Mbps								
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports								
Performance									
Switching Capacity	• 128 Gbps	• 128 Gbps	• 176 Gbps	• 176 Gbps					
Transmission	Store-and-forward								
Method		Store-	and-forward						
	• 16K	• Store-	• 32K	• 32K					
Method	• 16K	• 16K		• 32K					
Method MAC Address Table Static MAC	• 16K • 95.24 Mpps	• 16K	• 32K	• 32K • 130.95 Mpps					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding		• 16K • 25	• 32K 6 entries						
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> </ul>	• 130.95 Mpps					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer Memory	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> <li>16 Mbits</li> </ul>	• 130.95 Mpps					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer Memory Flash Memory	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> <li>16 Mbits</li> <li>54 MB</li> </ul>	• 130.95 Mpps					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer Memory Flash Memory DRAM Size	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> <li>16 Mbits</li> <li>54 MB</li> </ul>	• 130.95 Mpps					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer Memory Flash Memory DRAM Size POE	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> <li>256</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> <li>16 Mbits</li> <li>54 MB</li> </ul>	<ul> <li>130.95 Mpps</li> <li>16 Mbits</li> </ul>					
Method MAC Address Table Static MAC Addresses Maximum 64 Byte Packet Forwarding Rate Packet Buffer Memory Flash Memory DRAM Size POE POE Standard	• 95.24 Mpps	<ul> <li>16K</li> <li>25</li> <li>95.24 Mpps</li> <li>12 Mbits</li> <li>256</li> <li>IEEE 802.3af/at</li> </ul>	<ul> <li>32K</li> <li>6 entries</li> <li>130.95 Mpps</li> <li>16 Mbits</li> <li>54 MB</li> </ul>	<ul> <li>130.95 Mpps</li> <li>16 Mbits</li> <li>IEEE 802.3af/at</li> </ul>					

LEDs					
Power (per device)			$\checkmark$		
Link/Active/Speed (per RJ-45 port)			√		
ink/Active/Speed per 10G SFP+ port)			$\checkmark$		
Physical					
Power Input		• 100 to 240 V AC 50/60 Hz	internal universal power supply		
Maximum Power Consumption	<ul> <li>30.6 W/100 V</li> <li>29.6 W/240 V</li> </ul>	<ul> <li>PoE On:</li> <li>455.1 W/100 V</li> <li>431.5 W/240 V</li> <li>PoE Off:</li> <li>38.6 W/100 V</li> <li>39.1 W/240 V</li> </ul>	<ul> <li>51 W/100 V</li> <li>51.2 W/240 V</li> </ul>	<ul> <li>PoE On:</li> <li>467.3 W/100 V</li> <li>443.6 W/240 V</li> <li>PoE Off:</li> <li>56.4 W/100 V</li> <li>57.2 W/240 V</li> </ul>	
Standby Power Consumption	<ul> <li>8.7 W/100 V</li> <li>9.3 W/240 V</li> </ul>	<ul> <li>18.5 W/100 V</li> <li>19 W/240 V</li> </ul>	<ul> <li>23 W/100 V</li> <li>23.5 W/240 V</li> </ul>	<ul> <li>27.8 W/100 V</li> <li>28.4 W/240 V</li> </ul>	
Acoustics	<ul><li>Max: 47.6 dB(A)</li><li>Min: 33.2 dB(A)</li></ul>	<ul> <li>Max: 50.8 dB(A)</li> <li>Min: 42.0 dB(A)</li> </ul>	<ul> <li>Max: 50.7 dB(A)</li> <li>Max: 39.0 dB(A)</li> </ul>	<ul><li>Max: 51.2 dB(A)</li><li>Min: 43.0 dB(A)</li></ul>	
Heat Dissipation	<ul> <li>104.346 BTU/hr (100 V)</li> <li>100.936 BTU/hr (240 V)</li> </ul>	<ul> <li>PoE On:</li> <li>1551.891 BTU/hr (100 V)</li> <li>1471.415 BTU/hr (240 V)</li> <li>PoE Off: <ul> <li>131.626 BTU/hr (100 V)</li> <li>133.331 BTU/hr (240 V)</li> </ul> </li> </ul>	<ul> <li>173.91 BTU/hr (100 V)</li> <li>174.592 BTU/hr (240 V)</li> </ul>	<ul> <li>PoE On:</li> <li>1593.493 BTU/hr (100 V)</li> <li>1512.676 BTU/hr (240 V)</li> <li>PoE Off: <ul> <li>192.324 BTU/hr (100 V)</li> <li>195.052 BTU/hr (240 V)</li> </ul> </li> </ul>	
MTBF	• 743,482.45 hours	• 463,430.16 hours	• 589,984.72 hours	• 309,053.10 hours	
Operating Temperature	<ul> <li>-5 to 50°C (23 to 122°F)</li> </ul>				
Storage Temperature Operating Humidity	<ul> <li>-20 to 70°C (-4 to 158°C)</li> </ul>				
Storage Humidity	• 0% to 95% relative humidity     • 0% to 95% relative humidity				
Dimensions (L x W x H)	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x9.84 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	
Weight	• 1.75 kg (3.86 lbs)	• 3.46 kg (7.63 lbs)	• 3.01 kg (6.63 lbs)	• 3.85 kg (8.49 lbs)	
Certification					
Safety		• CB, UL	., BSMI, CCC		
	CE Class A, VCCI Class A, FCC Class A, IC, BSMI				

## Standard Image Software Features

	MAC Address Table	Port Mirroring		
	16K entries	• One-to-One		
	<ul> <li>32K entries (DGS-1250-52X/52XMP only)</li> </ul>	• Many-to-One,		
	IGMP Snooping	<ul> <li>Supports Mirroring for Tx/Rx/Both</li> </ul>		
		Flow Control		
	IGMP v1/v2/v3 Snooping	• 802.3x Flow Control		
	Supports 256 IGMP groups	HOL Blocking Prevention		
	Supports at least 64 static multicast addresses	Multicast Filtering		
	• IGMP per VLAN	Forwards all registered groups		
L2 Features	Supports IGMP Snooping Querier	Filters all unregistered groups		
	Loopback Detection	Configurable MDI/MDIX		
	802.3ad Link Aggregation:	<ul> <li>MLD snooping v1/v2 awareness (256 groups)</li> </ul>		
	Supports maximum 8 groups per per device and 8 ports per group	• PD-Alive		
	• LLDP	DDM support for optics		
	• LLDP-MED	• Jumbo Frame		
	Spanning Tree Protocol	• Up to 12,000 bytes		
	• 802.1D STP			
	• 802.1w RSTP			
	• 802.1s MSTP			
	802.1p Quality of Service	QoS based on:		
	• 8 queues per port	802.1p priority queues		
	Queue Handling	• DSCP		
	• Strict	MAC address		
	Weighted Round Robin (WRR)	• EtherType		
VLAN	• WDRR	IP address		
	Bandwidth Control	Protocol type		
	<ul> <li>Port-based (ingress/egress, min granularity 10/100/1000 is</li> <li>16 (kpc)</li> </ul>	• ToS		
	16 Kbps)	IP preference		
		IPv6 Traffic Class		
		TCP/UDP port		
	• IP interface	Static routing		
L3 Features	Supports 4 interfaces	124 IPv4 static route entries		
	• IPv6 Neighbor Discovery (ND)	<ul> <li>50 IPv6 static route entries</li> </ul>		
	• Max. 50 access lists	. This address		
		IPv6 address		
	• Max. 768 rules shared by IPv4, MAC, and IPv6	Source/destination IP address mask		
	• Each rule can only be associated with a single port	DSCP mask		
	ACL based on	Protocol type mask		
	MAC address	TCP/UDP port number mask		
	<ul> <li>802.1p priority mask</li> </ul>	• IPv6 traffic class mask		
Access Control List	• VID mask			
(ACL)	<ul> <li>Source/destination MAC address mask</li> </ul>			
	EtherType mask			
	• IP address			
	Source/destination IP address mask			
	DSCP mask			
	Protocol type mask			
	TCP/UDP port number mask			

	Duesdasch (Multissch (Unissch Chaums Country)	DHCP Server Screening		
	<ul> <li>Broadcast/Multicast/Unicast Storm Control</li> <li>D-Link Safeguard Engine</li> </ul>	IP-MAC-Port Binding (Smart Binding)		
	Traffic segmentation	ARP Inspection		
	SSH v2	Max. 64 entries		
	• TLS v.1.2	• IPv4 Inspection		
	DoS attack prevention	Max. 127 entries		
Security Features	802.1X Port-based Access Control	• IPv6 Inspection		
Security realures	Port Security	Max. 63 entries		
	Supports up to 64 MAC addresses per port	DHCP Snooping		
	ARP Spoofing Prevention	Max. 512 entries		
	Max. 127 entries	AAA support for RADIUS/TACACS+		
	• Max. 127 entries	Password encryption		
		MAC authentication		
	802.1X Authentication	• IPv6 RADIUS server		
	Supports local/RADIUS database	Support MD5 authentication		
AAA	Supports port-based access control	Max. 128 entries when using local database		
	<ul> <li>Supports host-based access control</li> </ul>			
	• Supports EAP, OTP, TLS, TTLS, PEAP			
OAM	Cable diagnostics	• Factory reset		
	• Web-based GUI	• System Log		
	D-Link Network Assistant	Max. 500 log entries		
	• Full CLI	• SNTP		
	• Telnet Server	• ICMP v6		
	• TFTP Client	• IPv4/v6 Dual Stack		
	Configurable MDI/MDIX	DHCP Auto Configuration		
Management	• SNMP	• Time setting		
	Supports v1/v2c/v3	• SNTP		
	• SNMP Trap	• RMONv1		
	• Backup/upgrade firmware	• Trusted host		
	Smart Wizard	• Dual image		
	Upload/download configuration file	Dual configuration		
	BootP/DHCP Client	Command logging		
	<ul> <li>Power Saving by:</li> </ul>	<ul> <li>System hibernation</li> </ul>		
Green V3.0 Technology	<ul><li>Power Saving by:</li><li>Link Status</li></ul>	<ul><li>System hibernation</li><li>Port shut off</li></ul>		

	RFC1212 Concise MIB Definitions	• RFC2674 802.1p MIB		
	• RFC1213 MIBII	• Interface Group MIB		
	RFC1215 MIB Traps Convention	• RFC2618 RADIUS Authentication Client MIB		
	RFC1493 Bridge MIB	RFC4022 MIB for TCP		
	• RFC1157, RFC2573, RFC2575, RFC2576 SNMP MIB	• RFC4113 MIB for UDP		
MIBs	• RFC1442, RFC1901, RFC1902, RFC1903, RFC1904,	• RFC2389 MIB for Diffserv.		
	RFC1905, RFC1906, RFC1907, RFC1908, RFC2578, RFC3418 SNMPv2 MIB	RFC2620 RADIUS Accounting Client MIB		
	• RFC271, RFC1757, RFC2819 RMON MIB	• Private MIB		
	• RFC2021 RMONv2 MIB	• PoE MIB		
	• RFC1398, RFC1643, RFC1650, RFC2358, RFC2665 Ether-	• DDP MIB		
	like MIB	• LLDP-MED MIB		
	• RFC791 IP	RFC2573 SNMP Applications		
	• RFC768 UDP			
	• RFC793 TCP	• RFC2461, RFC4861 Neighbor Discovery for		
	• RFC792 ICMPv4	IPv6		
	• RFC2463, RFC4443 ICMPv6	RFC2462, RFC4862 IPv6 Stateless Address		
RFC Standards	• RFC826 ARP	Auto-configuration (SLAAC)		
	• RFC1321, RFC2284, RFC2865, RFC2716, RFC3580 Extensible	• RFC2464 IPv6 over Ethernet and definition		
	Authentication Protocol (EAP)	RFC4291 IPv6 Addressing Architecture		
		• RFC2893, RFC4213 IPv4/IPv6 dual stack		
		function		

Order Information	1			
DGS-1250-28X	24 Ports 10/100/1000 Mbps + 4 Ports 10G SFP+ Smart Managed Switch			
DGS-1250-28XMP	24 Ports 10/100/1000 Mbps PoE + 4 Ports 10G SFP+ Smart Managed Switch			
DGS-1250-52X	48 Ports 10/100/1000 Mbps + 4 Ports 10G SFP+ Smart Managed Switch			
DGS-1250-52XMP	48 Ports 10/100/1000 Mbps PoE + 4 Ports 10G SFP+ Smart Managed Switch			
Optional SFP Tran	nsceivers			
DGS-712	1000BASE-T copper			
DEM-302S-LX	1000BASE-LX, single-mode, 2 km			
DEM-302S-BXD/BXU	Gigabit WDM transceiver, single-mode, 2 km			
DEM-310GT	1000BASE-LX, single-mode, 10 km			
DEM-311GT	1000BASE-SX, multi-mode, 550 m			
DEM-312GT2	1000BASE-SX, multi-mode, 2 km			
DEM-314GT	1000BASE-LHX, single-mode, 50 km			
DEM-315GT	100BASE-ZX, single-mode, 80 km			
DEM-330T/R	Gigabit WDM transceiver, single-mode 10 km			
DEM-331T/R	Gigabit WDM transceiver, single-mode 40 km			
Optional SFP+ Transceivers				
DEM-431XT	10GBASE-SR SFP+ transceiver (without DDM), 33 m: OM1 MMF, 82 m: OM2 MMF, 300 m: OM3 MMF			
DEM-432XT	10GBASE-LR SFP+ transceiver (without DDM), 10 km			
DEM-433XT	10GBASE-ER SFP+ transceiver (without DDM), 40 km			
DEM-434XT	10GBASE-ZR SFP+ transceiver (without DDM), 80 km			
DEM-436XT-BXD	10GBASE-LR BiDi SFP+ transceiver (without DDM), wavelength Tx: 1330 nm, Rx: 1270 nm, 20 km			
DEM-436XT-BXU	10GBASE-LR BiDi SFP+ transceiver (without DDM), wavelength Tx: 1270 nm, Rx: 1330 nm, 20 km			

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