DUXNET

PRODUCT DATASHEET

SOLAR SWITCHES



Harnessing the power of the sun for Next-Level network reliability

OVERVIEW

The DuxNet Solar Switches provide reliable and efficient network connectivity in environments where traditional power sources may be limited or unavailable. These switches combine the benefits of Gigabit Ethernet, fibre connectivity, solar power, and Power-over-Ethernet (PoE) into a compact and durable package. Unmanaged and Managed options available with LED display on specific models.

MAIN FEATURES

- **High-Speed Connectivity:** Five Gigabit Ethernet ports ensure fast and dependable data transfer for various devices.
- **Fibre Flexibility:** The SFP port allows for longer-distance connections using fibre optic cables, making it suitable for applications that require extended reach.
- **Solar Power Independence:** The solar power capability eliminates the need for external power sources, providing flexibility and sustainability in remote or off-grid locations.
- **Power-over-Ethernet (PoE):** PoE reduces the need for additional power outlets by supplying power to connected devices directly through the Ethernet cable.
- **Rugged Design:** The compact and durable design makes these switches suitable for outdoor installations and harsh environments.
- **Plug-and-Play Simplicity: The easy setup process requires no software** installation or configuration, making deployment quick and straightforward.

Model Name	DUX106SPS5A	DUX106SPS5A_LED	DUX106SPS15A
SOLAR UNMANAGED SWITCHES			
Product Description	5 Port Gigabit Solar PoE Switch with 1-Port SFP	5 Port Gigabit Solar PoE Switch with 1-Port SFP	5 Port Gigabit Solar PoE Switch with 1-Port SFP
Port Configuration			
10M/100M/1G RJ45 Ports	5	5	5
1G Uplink Ports	-	-	-
1G SFP Ports	1	1	1
Total Ports	6	6	6
PoE Function			
IEEE802.3at (PoE+ 30W)	2	2	2
IEEE802.3af (PoE 15.4W)	2	2	2
UPoE(60W)	1	1	1
PoE Port	5	5	5
Adaptive PoE	24V/48V on port 4/5	24V/48V on port 4/5	24V/48V on port 4/5
PoE Display	-	Y	-
Available PoE Power	75W	75W	75W
HW Performance			
Switching Bandwidth	12Gbps	12Gbps	12Gbps
MAC Address	2K	2K	2K
Environmental Specification			
Operating Temperature	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C
Operating Humidity	10% to 90%	10% to 90%	10% to 90%
Storage Temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Storage Humidity	5% to 90%	5% to 90%	5% to 90%
Mechanical Specification			
Dimensions (H) x (W) x (D) mm	35 x 142 x 160	35 x 142 x 160	35 x 142 x 160
Power Source			
AC Input / DC Input	12V/24V Solar or Battery	12V/24V Solar or Battery	12V/24V Solar or Battery
Solar Panel Input	Max 400W	Max 400W	Max 800W
Battery	12V or 24V Lead-Acid / Lithium (MAX 50AH)	12V or 24V Lead-Acid / Lithium (MAX 50AH)	12V or 24V Lead-Acid / Lithium (MAX 500AH)
AI Mode			
AI Extend	-	-	-
AI VLAN	-	-	-
AI QoS	-	-	-
PoE Watchdog	Y	Y	Y
Port-Based	-	-	-

Model Name	DUX118SPS

SOLAR MANAGED SWITCHES



Product Description	8 Port Gigabit Solar PoE Switch with 2-Port SFP

Port Configuration

10M/100M/1G RJ45 Ports	8
1G Uplink Ports	-
1G SFP Ports	2
Total Ports	10

PoE Function

IEEE802.3at (PoE+ 30W)		8
IEEE802.3af (PoE 15.4W)		8
UPoE(60W)		1
PoE Port		8
Adaptive PoE		24V/48V on all ports
Available PoE Power		280W
Power Pin	48V power supply	12+36-
	24V power supply	45+78-

HW Performance

Switching Bandwidth	56Gbps
MAC Address	8K
Packet Forwarding	40.32Mbps
Buffer	4.1M

Environmental Specification

Operating Temperature	-10°C to 55°C
Operating Humidity	10% to 90% non-condensing
Storage Temperature	-40°C to 70°C
Storage Humidity	5% to 90% non-condensing

Mechanical Specification

Dimensions (H) x (W) x (D) mm	330 x 190 x 45

Power Source

AC Input	AC 100-240V 50/60Hz 4.0A
DC Input	24V solar input(≤44V)
Solar Panel Input	Max 800W
Battery	Support 24V(12V*2)
Battery Input	Capacity MAX 24V 100AH

Charging Function

Integrated fully automatic charging	Y
Integrated battery protection function	Y
Automatic Battery Voltage Recognition	Y
Integrated Lithium Battery Automatic Activation System	Y
Integrated Low Volume Start-up Protection System	Y

Model Name	DUX106SPS5A	DUX106SPS5A_LED	DUX106SPS15A

SOLAR UNMANAGED SWITCHES





Charging Function				
Integrated fully automatic charging		Y	Y	Y
Integrated battery protection function		Y	Y	Y
Automatic Battery Voltage Recognition		Y	Y	Y
Integrated Lithium Battery Automatic Activation System		Y	Y	Y
Integrated Low Volume Start-up Protection System		Y	Y	Y

QoS Features				
Class of Service		-	-	-
Rate Limiting	Ingress	-	-	-
	Egress	-	-	-
Priority Queue Scheduling	WRR	-	-	-
	Strict Priority	-	-	-

Model Name	DUX118SPS

SOLAR MANAGED SWITCHES



L2 Switching	
Spanning Tree, VLAN, QoS	Y
RSTP/MSTP, MLD Snooping, EAPS/EPPS	Y
Link Aggregation, Port Flow Control, Port Isolation	Y
Loop Guard, Port Mirror, Storm Suppression	Y

Network Management	
WEB NMS, CLI management based on Telnet, TFTIP,	Y
Console, SNMP V1/V2/V3	Y
RMON V1/V2, RMON Management	Y

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