DUXNET

PRODUCT DATASHEET

DUX118SPS



Managed 8 Port Gigabit Solar PoE Switch with 2-Port SFP

OVERVIEW

The Dux118SPS is a reliable networking solution for outdoor and remote deployments. It features 8x Gigabit PoE ports and 2 Gigabit SFP uplinks, ensuring seamless connectivity for IP cameras, wireless APs, and other PoE devices. Designed for solar power systems, it operates efficiently in off-grid locations, and provides secure and stable performance. Its durable design makes it ideal for industrial and outdoor use.

MAIN FEATURES

- **Auto charging and discharging**
- **Battery voltage auto detection**
- **Support lead-acid and lithium battery (MAX 100AH)**
- **Support 24V solar panel input (MAX 800W)**
- **Intelligent PSE chip**
- **PoE standard: IEEE802.3af/at/PoE++**
- **High-power output (first port can output Hi-PoE, MAX 60W)**
- **4-5 port 24V/48V adaptive output**
- **REALTEK intelligent CPU chip**
- **24/48V PoE output**
- **Layer 2 Managed**

Model No.	DUX118SPS
Product	8+2 Auto Managed Solar Swicth
Port	8*10/100/1000Base-TX PoE port(data/power)
	2*1000M SFP
PoE Port	8-port fully automatic 24V/48V matching PoE
	IEEE802.3af/at, PoE port output power MAX 30W
	Active 24V PoE port output power MAX 25W
	Configurable 48V/24V PoE output
	Support 48V or 24V PoE device power
	1-8 port supports PoE
PoE total power	MAX 280W
Power Pin	48V power supply: 12+36-
	24V power supply: 45+78-
PoE Function	Programmatically configure PoE power supply output mode 48V/24V PoE output
Console Port	1* Console Port
Reset Key	1
Network Protocol	IEEE 802.3
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab1000BASE-T
	IEEE 802.3x
	IEEE 802.3z 1000BASE-X
	IEEE 802.3af/at
	AI PSE
	IEEE 802.3ad
	IEEE 802.3q , IEEE 802.3q/p
	IEEE 802.1w, IEEE 802.1d , IEEE 802.1S
	STP(Spanning Tree Protocol)
	RSTP/MSTP(Rapid Spanning Tree Protocol)
	EPPS ring network protocol
	EAPS ring network protocol
Port Specification	10/100/1000BaseT(X)Auto
Transmission Mode	Store and Forward(full wire-speed)
Bandwidth	56Gbps
Packet Forwarding	40.32Mpps
Port Specification	10/100/1000BaseT(X)Auto
MAC Address	8K
Buffer	4.1M

Transmission Distance	10BASE-T: Cat3,4,5 UTP(≤250 meter)
	100BASE-TX: Cat5 or later UTP(≤100 meter)
	1000BASE-TX: Cat6 or later UTP(≤1000 meter)
	1000BASE-SX: 62.5μm/50μm MMF(2m~550m)
	1000BASE-LX: 62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)
	Max. Support Transmission Distance 120KM for Single Mode Optical Fiber
Transmission Speed	Ethernet 10Mbps half duplex; 20Mbps full duplex
	Fast Ethernet 100Mbps half duplex; 200Mbps full duplex
	Gigabit Ethernet 2000Mbps full duplex
CPU	500MHZ
FLASH	16M
RAM	128M
Battery	Support 24V(12V*2)lead-acid battery group
	Capacity MAX 24V 100AH
Power Input	AC 100-240V 50/60Hz 4.0A MAX 350W
	Support 24V solar panel input(≤44V) MAX 800W
Watt	Charging+full-loaded: 450W
	Discharging+full-loaded: 150W
Charging Function	Controlling and management on charging and discharging
LED	PW:Power LED
	Port:(Orange=PoE LED+Green=Link LED)
	9 10:(SFP LED)
	SUN:Solar panel LED
	AC:AC input LED
	VOI:Output voltage normal LED
	BOK:Battery normal LED
	BOT:Discharging normal LED
	BIN:Charging normal LED
	25%/50%75%100%:Charging and discharging power LED
Operating Temperature/ Humidity	-10~+55°C; 10%~90% RH Non coagulation
Storage Temperature/ Humidity	40~+70°C; 5%~90% RH Non coagulation
Product Size/ Packaging Size (L*W*H)	330mm*190mm*45mm
	410mm*280mm*100mm
N.W/G.W (kg)	3.5kg(solar panel and battery excluded in the product)
Installation	Rack-mount
Lightning protection level	3kv 7/20us
	1P30
Certificate	CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS

Software Parameter	
Protocol Standard	IEEE 802.3x
	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z
	IEEE 802.3ad
	IEEE 802.3q, IEEE 802.3q/p
	IEEE 802.1w, IEEE 802.1d, IEEE 802.1S, IEEE 802.1X
VLAN	Port-based VLAN
	Up to 4096 VLANs
	Support Voice VLAN, can configure QoS for voice data
	802.1Q VLAN
Spanning Tree	STP(Spanning tree protocol)
	RSTP(Rapid spanning tree protocol)
	MSTP(Rapid spanning tree protocol)
	EPPS(Ring network protocol)
	EAPS(Ring network protocol)
	802.1x argumentation agreement
Negotiation Mode	Port support auto negotiation function(self-negotiation transmission speed and duplex mode)
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning,intelligent blocking, automatic recovery
Port Isolation	Support downlink ports isolated from each other and communicate with uplink port
Port Flow Control	Half duplex based back pressure control
	Full duplex based on PAUSE frame
Network Management	WEB NMS
	CLI management based on Telnet, TFTIP, Console
	SNMP V1/V2/V3
	RMON V1/V2
	RMON Management
Link Aggregation	Max 8 aggregation groups TRUNK, each supports 8 ports
	Static aggregation and passive aggregation
IGMP Snooping	IGMPv1/2/3 and MLDv1/2 Snooping
	GMRP Protocol Registration
	Multicast address management, multicast VLAN,multicast routing ports, static multicast addresses
Storm Suppression	Unknown uni-cast, multicast,unknown multicast, storm suppression of broadcast type
	Storm suppression based on bandwidth tuning and storm filtering
Security	User port+ IP Address+ MAC Address
	ACL based on IP and MAC
	Security properties of port based MAC address quantities

QOS	802.1p port queue priority algorithm
	Cos/Tos, QOS sign
	WRR (Weighted Round Robin), Weighted priority rotation algorithm
	WRR, SP, WFQ, 3 priority scheduling models
	Support classification based on port, MAC, 802.1q and DSCP
System Maintenance	Firmware Upgrade
	System log view
	Upload and download configuration file
	Management on multiple user
	WEB restore factory configuration
Solar Energy Configuration	System and battery temperature monitoring
	Selection of battery capacity configuration
	System and power fan controlling
	AC input status monitoring
	Solar power input status monitoring
	Charging status monitoring
	Input and output power monitoring
	Charging and discharging time budget
	Fault alarm system
	Total power generation Statistics
PoE Management	Configurable 48V/24V PoE output; turn ON/OFF port
	Standard PoE scheduling management
	Power and current display
	PoE dog function; timing re-activation
	IP binding restarting
Cable Sequence	Auto-MDIX; auto identification of straight-through cables and crossover cables
MAC Address	Support 8K addresses,auto aging and learning
DHCP	DHCP Snooping

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