

## PREMIUM MANAGED SWITCHES



Enterprise-Grade Switching with Centralised Cloud Control

## OVERVIEW




**DuxNet Premium Managed Switches** are designed for organisations that require more than standalone switching. They combine enterprise-grade hardware with **built-in DuxNet Cloud management**, enabling centralised control, visibility, and optimisation across industrial, commercial, and multi-site environments.

Available across **Industrial, Layer 2 Managed, and Layer 3 Managed models**, the Premium range removes the complexity of traditional controller-based architectures. Networks can be deployed, configured, monitored, and maintained centrally without external controllers or recurring licence costs.

By embedding cloud intelligence directly into the switching layer, DuxNet Premium supports modern operational requirements such as multi-site management, proactive monitoring, and faster fault resolution, while maintaining the reliability and performance expected from business-critical infrastructure.

## MAIN FEATURES

- ✓ **Built-In Cloud Management**  
All Premium models include DuxNet Cloud as standard, providing centralised network management without additional licences or controllers.
- ✓ **Simplified Network Operations**  
Centralised configuration, monitoring, and troubleshooting reduce operational overhead and eliminate the need to manage devices individually.
- ✓ **Faster Deployment and Support**  
Zero-touch provisioning and remote management enable quicker rollouts and faster response to network issues across distributed environments.
- ✓ **Improved Visibility and Control**  
Real-time insights into device status, performance, and topology provide better control and quicker fault isolation.
- ✓ **Proactive Network Reliability**  
Continuous health monitoring and predictive alerts help identify potential issues before they impact network availability.
- ✓ **Scalable by Design**  
The Premium range supports growth from single-site deployments to complex multi-site and industrial networks without architectural changes.

Model Name	DUX104GPS-2F-IS	DUX108GPS-2F-IS	DUX1016GPS-4F-IS
<b>INDUSTRIAL SWITCHES</b>			
Product Description	6-port Gigabit managed Industrial PoE switch	10-port Gigabit-managed Industrial PoE switch	20-port Gigabit-managed Industrial PoE switch
<b>Port Configuration</b>			
10M/100M/1G RJ45 Ports	4	8	16
1G Uplink Ports (RJ45)	-	-	-
1G SFP Ports	2	2	4
Total Ports	6	10	20
<b>PoE Function</b>			
IEEE802.3af (PoE 15.4W)	Y	Y	Y
IEEE802.3at (PoE+ 30W)	Y (46W)	Y (46W)	Y
UPoE(60W)	-	-	-
PoE Port	4	8	16
Available PoE Power	60W ~ 96W	96W ~ 150W	400W
<b>Installation</b>			
Mounting	DIN Rail	DIN Rail	DIN Rail
<b>HW Performance</b>			
Switching Bandwidth	12 Gbps	24 Gbps	40Gbps
MAC Address	8K	8K	8K
<b>Environmental Specification</b>			
Operating Temperature	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Operating Humidity	-5% to 95%	-5% to 95%	-5% to 95%
Storage Temperature	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Storage Humidity	-5% to 95%	-5% to 95%	-5% to 95%
<b>Mechanical Specification</b>			
Dimensions (D) x (W) x (H) mm	110 x 46.5 x 163	110 x 46.5 x 163	164 x 130 x 78.5
Weight	0.5kg	1.0Kg	1.0Kg
<b>Power Source</b>			
AC/DC Input	48-56 VDC	48-56 VDC	48-56 VDC
Input Method	Plug-in 5-core 5.08mm pitch terminal block	Plug-in 5-core 5.08mm pitch terminal block	Plug-in 5-core 5.08mm pitch terminal block
<b>AI Mode*</b>			
AI Extend	Y	Y	Y
AI VLAN	Y	Y	Y
AI QoS	Y	Y	Y
AI PoE	Y	Y	Y
Port-Based	Y	Y	Y
<b>Specifications</b>			
Hardware Watchdog	Y	Y	Y
Traffic Statistics	Y	Y	Y
Port Energy Saving	Y	Y	Y

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### Hardware Standard

IP40 Level Protection		Y	Y	Y
EMI	FCC CFR47 Part 15	Y	Y	Y
	EN55022/CISPR22	Y	Y	Y
	Class A	Y	Y	Y
EMS	IEC61000-4-2 (ESD)	±8kV (contact), ±15kV (air)	±8kV (contact), ±15kV (air)	±8kV (contact), ±15kV (air)
	IEC61000-4-3 (RS)	10V/m (80MHz-2GHz)	10V/m (80MHz-2GHz)	10V/m (80MHz-2GHz)
	IEC61000-4-4 (EFT)	Power Port: ±4kV; Data Port: ±2kV	Power Port: ±4kV; Data Port: ±2kV	Power Port: ±4kV; Data Port: ±2kV
	IEC61000-4-5 (Surge)	Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV	Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV	Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±6kV

### Mechanical Properties

	IEC60068-2-6 (Vibration)	Y	Y	Y
	IEC60068-2-27 (Shock)	Y	Y	Y
	IEC60068-2-32 (Free Fall)	Y	Y	Y

### Features

DHCP	DHCP Relay	Y	Y	Y
	DHCP Snooping	Y	Y	Y
VLAN	VLAN Entries	4K	4K	4K
	802.1Q VLAN	Y	Y	Y
	MAC-Based VLAN	Y	Y	Y
	IP Subnet-Based VLAN	Y	Y	Y
	Voice VLAN	Y	Y	Y
GARP/GVRP		Y	Y	Y
MAC Address Table	IEEE 802.1d	Y	Y	Y
	Auto Learning/Aging	Y	Y	Y
	Static	Y	Y	Y
	Dynamic	Y	Y	Y
	Filtering	Y	Y	Y
RUN-Ring		Y	Y	Y
	Self-Healing Time	10ms	10ms	10ms
	Public ERPS	Y	Y	Y
Spanning Tree	IEEE802.1D (STP)	Y	Y	Y
	IEEE802.1W (RSTP)	Y	Y	Y
	IEEE802.1S (MSTP)	Y	Y	Y
	Loop Protection	Y	Y	Y
	Root Bridge Protection	Y	Y	Y
	TC Protection	Y	Y	Y
	BPDU Protection	Y	Y	Y
	BPDU Filtering	Y	Y	Y
IGMP v1/v2		Y	Y	Y
Fast Leave		Y	Y	Y
Multicast VLAN		Y	Y	Y
Multicast Filtering		Y	Y	Y
Packet Statistics		Y	Y	Y
Unknown Multicast Discards		Y	Y	Y
Storm Suppression	Multicast	Y	Y	Y
	Broadcast	Y	Y	Y
	Unknown Unicast Suppression	Y	Y	Y

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### Features

Link Aggregation	Static Aggregation	Y	Y	Y
	Dynamic Aggregation	Y	Y	Y
	IP	Y	Y	Y
	MAC-Based VLAN	Y	Y	Y
	Hybrid Load Balancing	Y	Y	Y
IPv6 Management	IPv6 Ping	Y	Y	Y
	IPv6 Tracert	Y	Y	Y
	IPv6 Telnet	Y	Y	Y
	IPv6 SSH	Y	Y	Y
	IPv6 SSL	Y	Y	Y

### Safety Features

Password Protection		Y	Y	Y
User Access based on:	Port Number	Y	Y	Y
	IP Address	Y	Y	Y
	MAC Address	Y	Y	Y
Encryption	HTTPS	Y	Y	Y
	SSL	Y	Y	Y
	TLS V1	Y	Y	Y
	SSH V1/V2	Y	Y	Y
RADIUS Authentication 802.1x		Y	Y	Y

### Management and Maintenance

Web Management	HTTP	Y	Y	Y
	HTTPS	Y	Y	Y
	SSL v3	Y	Y	Y
CLI	Telnet	Y	Y	Y
	SSH V1/V2	Y	Y	Y
	Local Serial Port	Y	Y	Y
SNMP	V1/V2/V3	Y	Y	Y
LLDP		Y	Y	Y
RMON		Y	Y	Y
ARP Protection		Y	Y	Y
IP Source Protection		Y	Y	Y
DoS Protection		Y	Y	Y
CPU Monitoring		Y	Y	Y
Memory Monitoring		Y	Y	Y
System Log		Y	Y	Y
Grading Warning		Y	Y	Y
Ping		Y	Y	Y
Tracert Detection		Y	Y	Y

\*Each unit is equipped with 4 working Modes which include VLAN (Port Isolation), AI Extender (Increasing transmission distance up to 250m at 10mbps), AI PoE (Automatically restarts a device if no data passes through the port for a set time) and AI QoS (Priorities network bandwidth).

Model Name	<b>DUX1510P</b>	<b>DUX2516PA</b>	<b>DUX2524P</b>
<b>LAYER 2 MANAGED SWITCHES</b>			
Product Description	<b>10-Port Layer 2 Gigabit PoE+ Switch with 2-Port SFP</b>	<b>18-Port Layer 2 Gigabit PoE+ Switch with 2-Port SFP</b>	<b>26-Port Layer 2 Gigabit PoE+ Switch with 2-Port SFP</b>

Port Configuration			
10M/100M/1G RJ45 Ports	8	16	24
1G Uplink Ports (RJ45 Shared)	-	-	-
1G SFP Ports	2	2	2
Total Ports	10	18	26

PoE Function			
IEEE802.3af (PoE 15.4W)	Y	Y	Y
IEEE802.3at (PoE+ 30W)	Y	Y	Y
UPoE(60W)	-	-	-
PoE Port	8	16	24
Available PoE Power	150W	150W	250W

HW Performance			
Switching Bandwidth	20 Gbps	36 Gbps	52 Gbps
MAC Address	8k	8k	8k

Environmental Specification			
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
Operating Humidity	10% to 90%	10% to 90%	10% to 90%
Storage Temperature	-10°C to 70°C	-10°C to 70°C	-10°C to 70°C
Storage Humidity	5% to 90%	5% to 90%	5% to 90%

Mechanical Specification			
Dimensions (H) x (W) x (D) mm	44 x 180 x 285	44 x 180 x 440	44 x 180 x 440

Power Source			
AC Input / DC Input	100-240V	100-240V	100-240V
Surge Protection	6KV per port	6KV per port	6KV per port

AI Mode*			
AI Extend	Y	Y	Y
AI VLAN	Y	Y	Y
AI QoS	Y	Y	Y
AI PoE	Y	Y	Y
Port-Based	Y	Y	Y

L2 Switching			
Spanning Tree	Y	Y	Y
VLAN	Y	Y	Y
IEEE 802.3ad LACP	Y	Y	Y
GARP/GVRP	Y	Y	Y
IGMP Snooping	Y	Y	Y
MLD Snooping	Y	Y	Y

Model Name		DUX1510P	DUX2516PA	DUX2524P
<b>QoS Features</b>				
Class of Service		Y	Y	Y
Rate Limiting	Ingress	Y	Y	Y
	Egress	Y	Y	Y
Priority Queue Scheduling	WRR	Y	Y	Y
	Strict Priority	Y	Y	Y
<b>Security</b>				
ACLs		Y	Y	Y
Port Security (MAC Based)		Y	Y	Y
IP Source Guard		Y	Y	Y
Storm Control		Y	Y	Y
RADIUS Authentication 802.1x		Y	Y	Y
HTTPs and SSL (Secured Web)		Y	Y	Y
STP Root		Y	Y	Y
DHCP Snooping		Y	Y	Y
Loop Protection		Y	Y	Y
<b>Management</b>				
DHCP	Client	Y	Y	Y
Event/Error Log	Syslog	Y	Y	Y
	SMTP (RFC821)	-	-	-
Management Filtering	SNMP	Y	Y	Y
	Web	Y	Y	Y
	Telnet	Y	Y	Y
PoE Management	SSH	Y	Y	Y
	Scheduling	Y	Y	Y
	Auto-Checking	Y	Y	Y
	Power Delay	Y	Y	Y

\* Each unit is equipped with 4 working Modes which include VLAN (Port Isolation), AI Extender (Increasing transmission distance up to 250m at 10mbps), AI PoE (Automatically restarts a device if no data passes through the port for a set time) and AI QoS (Priorities network bandwidth).

