Inscape Data offers the **Best-in-Class All-in-One-Box LinkPower™ Outdoor PoE (Power over Ethernet) switch systems** based on the IEEE802.3af/at and IP66/67/68 standards, enabling IP Video Surveillance, Wireless Mesh network, Smart City, Campus Network, and Municipal Network applications to operate under extreme weather conditions.

BENEFITS

- Supply PoE Power to All 5 Classes of IP Network Video Cameras
- Built-In Power Supply Protected by Overload, Over Voltage, & Over Temperature Features
- Maximum Security Protection by a Rich Set of Security Features, i.e. Password, SSH, 802.1x, & AAA, etc.
- Remote Network Management Through a Broad Set of Management Functions, i.e., PoE/Port/QoS Configuration, Remote Diagnostics, & VLAN, etc.
- No Fans, Natural Cooling, and No Noise Design for Enduring Outdoor Installation
- Investment Protection by IP67/68 Compliant Outdoor Enclosures
- 3-Year Limited Factory Warranty

FEATURE SUMMARY

HARDWARE

- All Ports Support Auto-Flip, i.e., Auto MDI/MDIX
- All PoE Ports Support IEEE802.3af/at PoE power up to 30W, PoE++ Model up to 60W
- Dual Power Input Reduntancy, i.e., 120V ~ 240V AC & 48V DC on all LPS1800/2000/3000
- 8K MAC Address Table, 9.6K Jumbo Frame, Packet Forwarding Rate 8.93Mbps@64bytes
- 52Gbps Switching Capacity for 8 PoE ports & 12Gbps Bandwidth Non-blocking for 4 PoE Ports
- MBTF: 539608 Hours

EMC / SAFETY

- CE Mark, Commercial CE/LVD, FCC, RoHS
- FCC Part 15 Class B
- UL60591-1, TUV EN60950-1

MANAGEMENT

- Supports Enhanced Management Through Web, CLI, TELNET, SSH, & SNMP
- Supports STP (802.1D) & RTSP (802.1W)
- Supports L2+ Switching Features Including 802.1Q VLAN, Mirroring, Port Isolation, IGMP Snooping, DHCP Snooping, LLDP, PoE+ Management, IP Source Guard, ARP Inspection, CLs, etc.
- Support Remote Cable Diagnostics
- Support Ethernet Protection Ring G.8032 <50ms Industrial Quick Ring Protection

OPERATING CONDITIONS

- Operating -30°C to 70°C, Non-Operating -45°C to 85°C
- Humidity: Operating 5% to 95%
- Altitude: Operating 3000m

4-Port Series

LPS3400ATM-T1

LPS3400ATMP-T1

LPS3400ATM-T2

LPS3400ATMP-T2

General Specs				
Manageability	Managed	Managed	Managed	Managed
Uplink Ports	2 Gigabit SFP	2 Gigabit SFP	2 Gigabit SFP	2 Gigabit SFP
PoE Ports	2 10/100/1000Mbps	2 10/100-/. . .Mbps	4 10/100/1000Mbps	4 10/100/1000Mbps
Type of Weatherproof Connectors	Cable Gland	Cable Gland	Plug n Play	Plug n Play
PoE Standards	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Max. PoE Power	30Wper Port/120W Total	60Wper Port/240W Total	30Wper Port/120W Total	60Wper Port/240W Total
Input Voltage	120~240AC / 48V DC	120~240AC / 48V DC	120~240AC / 48V DC	120~240AC / 48V DC
Network Protocol Standards	IEEE 802.3 CSMA/CD, 802.3i 10Base-T, 802.3u 100Base-T, 802.3ab 1000Base-T, 802.3x Flow Control, 802.1af DTE Power via MDI			
Management Functions	SNMP v1/v2c, RMON, HTTP/SSH, TACACS+, IEEE802.1x, IEEE802.1q VLAN, MAC Address Port Locking			
Auto MDI / MDIX	YES			
Ethernet Surge Protection	4KV			
Over Temperature Protection	Protection type : Shut down o/p voltage, re-power on to recover			
Working Temperature	-30℃ ~ +70℃			
Installation	Wall Mount Kit Included / Pole Mount Kit Optional			
Regulartory / Safety	CE, FCC, RoHS / UL60950-1, TUV EN60950-1, IEC60950-1 approved			
Warranty	3 Years			

LinkPower™ Outdoor PoE Switch Solutions for WIFI & ISP Services

8-Port Series

LPS3802ATM-T1

LPS3800ATM-T1

LPS3802ATM-T2

LPS3800ATM-T2

General Specs				
Manageability	Managed	Managed	Managed	Managed
Uplink Ports	2 Gigabit SFP	2 Gigabit RJ45 / SFP & 2 2.5 Gigabit SFP	2 Gigabit SFP	2 Gigabit RJ45 / SFP & 2 2.5 Gigabit SFP
PoE Ports	8 10/100/1000Mbps	8 10/100/1000Mbps	8 10/100/1000Mbps	8 10/100/1000Mbps
Type of Weatherproof Connectors	Cable Gland	Cable Gland	Plug n Play	Plug n Play
PoE Standards	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Max. PoE Power	30Wper Port/240W Total	30Wper Port/240W Total	30Wper Port/240W Total	30Wper Port/240W Total
Input Voltage	120~240AC	120~240AC	120~240AC / 48V DC	120~240AC / 48V DC
Network Protocol Standards	IEEE 802.3 CSMA/CD, 802.3i 10Base-T, 802.3u 100Base-T, 802.3ab 1000Base-T, 802.3x Flow Control, 802.1af DTE Power via MDI			
Management Functions	SNMP v1/v2c, RMON, HTTP/SSH, TACACS+, IEEE802.1x, IEEE802.1q VLAN, MAC Address Port Locking			
Auto MDI / MDIX	YES			
Ethernet Surge Protection	4KV			
Over Temperature Protection	Protection type : Shut down o/p voltage, re-power on to recover			
Working Temperature	-30℃ ~ +70℃			
Installation	Wall Mount Kit Included / Pole Mount Kit Optional			
Regulartory / Safety	CE, FCC, RoHS / UL60950-1, TUV EN60950-1, IEC60950-1 approved			
Warranty	3 Years			

8-Port Series

LPS6844ATM-T1

LPS7844ATM-T1

General Specs

Manageability	Managed	Managed
Uplink Ports	4 Gigabit RJ45 & 4 10 Gigabit SFP Fiber	4 Gigabit RJ45 & 4 10 Gigabit SFP Fiber
PoE Ports	8 10/100/1000Mbps	8 10/100/1000Mbps
Type of Weatherproof Connectors	Cable Gland	Cable Gland
PoE Standards	IEEE 802.3af/at	IEEE 802.3af/at
Max. PoE Power	30Wper Port/240W Total	30Wper Port/240W Total
Input Voltage	120~240AC	120~240AC
Network Protocol Standards	Layer 2 Switch	Layer 3 Switch
	IEEE 802.3 CSMA/CD, 802.3i 10Base-T, 802.3u 100Base-T, 802.3ab 1000Base-T, 802.3x Flow Control, 802.1af DTE Power via MDI	
Management Functions	SNMP v1/v2c, RMON, HTTP/SSH, TACACS+, IEEE802.1x, IEEE802.1q VLAN, MAC Address Port Locking	
Auto MDI / MDIX	YES	
Ethernet Surge Protection	8KV	
Over Temperature Protection	Protection type : Shut down o/p voltage, re-power on to recover	
Working Temperature	-30℃ ~ +70℃	
Installation	Wall Mount Kit Included / Pole Mount Kit Optional	
Regulartory / Safety	CE, FCC, RoHS / UL60950-1, TUV EN60950-1, IEC60950-1 approved	
Warranty	3 Years	

Inscape Data has been serving the video security, WIFI WISP, and Smart City markets worldwide since February 2004. Inscape Data Corporation is a U.S. based manufacturer of total PoE and fiber optic solutions. Inscape Data offers a unique combination of flexible installation and Layer 2+ and Layer 3 management features of commercial and outdoor PoE switches, which simplify wiring, integration, and network management for small size and large scale network deployment projects. Featuring remote reboot, power management, i.e., PoE monitoring, and other VLAN network management functions, Inscape Data's patented 2, 6, 10, and 14 port Outdoor and commercial 52 port Gigabit PoE switch systems with 10Gb Fiber Optic SFP+ transmission greatly reduce the challenges and installation overhead involved in the network design and deployment of wired/wireless, IP video, smart city networks.

LinkPower™ Commercial PoE Switch Series

LinkPower™ Commercial PoE Switch Solutions are Lay 2+ and Layer 3 Managed PoE switches designed and manufactured by Inscape Data Corporation. LinkPower™ Commercial PoE Switch Solutions offer 24 to 48 Gigabit PoE Ports and 4*1/10G SFP+ fiber slot ports, and the switch hardware is designed with Microsemi VITESSE chipsets featuring with large cache, low latency, and powerful network management functions. Each PoE power delivers 30W, and the maximum PoE output power is from 400W to 600W based on a specific model. The LinkPower Commercial PoE switches automatically detect and recognize the power receiving equipment, which meets the PoE standards and supply power through the network cable. The LinkPower Commercial PoE switches are ideal for hotels, college campuses and medium to large enterprises.

Model Name	PL2-22220	PL2-24004	PL2-48040	PL2-48004	PL3-240084	PL3-480004
Management	Layer 2+	Layer 2+	Layer 2+	Layer 2+	Layer 3	Layer 3
Port Interface (Network Protocol, Footnote 1)	Total 26 Ports 22 10/100/1000M PoE RJ45 Ports, 2 Gb Combo RJ45/SFP, 2 Gb SFP Ports, 1 Console Port	Total 28 Ports 24 10/100/1000M PoE RJ45 Ports, 4 10Gb SFP+ Ports, 1 Console Port	Total 52 Ports 48 10/100/1000M PoE RJ45 Ports, 4 Gb SFP Ports, 1 Console Port	Total 52 Ports 48 10/100/1000M PoE RJ45 Ports, 4 10Gb SFP+ Ports, 1 Console Port	Total 28 Ports 24 10/100/1000M PoE RJ45 Ports, 8Gb SFP Ports, 4 10Gb SFP+ Ports, 1 Console Port	Total 52 Ports 48 10/100/1000M PoE RJ45 Ports, 4 10Gb SFP+ Ports, 1 Console Port
POE Standard, Twisted Pair Transmission - Footnote 2	IEEE802.3af/at, Average Power 15.4 ~ 30W Max per Port					
Switching Capacity, MAC Address Table Size	256Gbps Non-blocking, 32K	256Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K
Fiber Ports	1Gb SFP, Mode options: Single/ Multimode, Single/Dual Fiber LC	10Gb SFP+, Mode options: Single/ Multimode, Single/Dual Fiber LC	1Gb SFP, Mode options: Single/ Multimode, Single/Dual Fiber LC	10Gb SFP+, Mode options: Single/ Multimode, Single/Dual Fiber LC	1GB SFP, 10Gb SFP+, Mode options: Single/Multimode, Single/Dual Fiber LC	
Optical Fiber Cable	Multimode:850nm 0~550M ,Single mode:1310nm 0~40KM,1550nm 0~120KM.					
System Power, Input Volt.	650W, AC100-240	400W, AC100-240	600W, AC100-240	600W, AC100-240	400W, AC100-240	600W, AC100-240
Packet Forwarding Rate, Memory Buffer	38.69Mpps @ 64byts, 32MB	95Mpps @ 64byts, 32MB	131Mpps @ 64byts, 32MB	131Mpps @ 64byts, 32MB	107Mpps @ 64byts, 32MB	
System LED Indicator	Power indicator: PWR(yellow); System indicator:SYS(yellow); Network indicator; Link/Act (yellow); PoE indicator: PoE (green); SFP fiber port :L/A (green)					
PoE Management	Total power limit of PoE power supply, PoE output power allocation per port, PoE output priority configuration for each port, PoE working state display per port, Power delay start, PoE work and time scheduling					
VLAN	Support port based VLAN (4K), IEEE802.1q, protocol based VLAN, Access, Trunk, Hybrid three types of port configuration, QinQ configuration					
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)					
QoS	1. SP (Strict Priority); 2. WFQ (Weighted Fair Queuing); , 3. WRR (Weighted Round Robin); 4. Head Of Line; 5. Best-Effort Service; 6. First come first served; 7. 802.1p; 8. Cos/Tos, QOS; 9. Differentiated Service;					
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring, the self healing time of the ring network is less than 20ms					
Management Features	DHCP Client, DHCP Snooping Port Aggregation, Multicast, Storm Control, QoS, Hardware Priority Queue, Port Secuirity, IGMP v1/v2 snooping, Secure Sheel (SSH) Porotocol, Web GUI management, CLI Management					
Lighting Protection	Lightning protection :6KV 8/20us; Protection Level:IP30					
POwer Supply	Built-in switching power supply, AC 100~240V 50-60Hz 6.6A					
Installation Method	Desktop type, 19 inch 1U cabinet installation					
Power Pin, RJ45	Default: 1/2(+),3/6(-)					
Operating/Storage Temp.	-20~+55°C;Humidity 5%~90% RH Non condensing, -40~+80°C; Humidity 5%~95% RH Non condensing					
Dimensions (LxWxH)	17.30x11.38x1.73 Inch					
Certification	CCC; CE mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B;RoHS;					
Warranty	3 Years					

Footnote 1 - Network Protocols: IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-TX; IEEE802.3z 1000Base-LX/SX/CX; IEEE802.3ae, 0GBase-SR/LR; IEEE802.3x
Footnote 2 - Twisted Pair Transmission: 10BASE-T:Cat3,4,5 UTP (≤100 meter) ; 100BASE-TX: Cat5 or later UTP (≤100 meter); 1000BASE-T:Cat6 or later UTP (≤100 meter)

LinkPower™ Commercial SFP L2+/L3 Managed Switch Series

The OFS Series solutions, the OFS2444 series, offer managed SFP managed L2+/L3 switches with 10G uplinks, with 24*100/1000M SFP ports +4*10/100/1000M RJ45 ports+4*1/10G(SFP+)Ports. The OFS2444 series offers Layer 2+ and Layer 3 full network management functions, which include support IPV4/IPV6 management, support static routing full line speed forwarding, support complete security protection mechanism, perfect ACL/QoS strategy and powerful VLAN function, a n d easy to manage and maintain. These functions support multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. In a situation where a one way network fails, communication can be recovered quickly to ensure uninterrupted communication of important applications. Through web network management mode, port traffic control, VLAN partition, SNMP, the OFS2444 series meets and exceeds the needs of any business configuration.

Model Name Management	OFS2444L2 Layer 2+	OFS2444L2-10 Layer 2+	OFS2444L3-10 Layer 3
Port Interface (Network Protocol, Footnote 1)	Total 32 Ports 24 Gb SFP Ports, 4 Gb RJ45, and 4 Gb SFP Uplink Ports	Total 32 Ports 24 Gb SFP Ports, 4 Gb RJ45, and 4 10Gb SFP Uplink Ports	Total 32 Ports 24 Gb SFP Ports, 4 Gb RJ45, and 4 10Gb SFP Uplink Ports
SFP Port Characteristics	Gigabit /10 Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional single-mode/multi-mode, single fiber / dual fiber module, LC)		
Optical Fiber Cable	Multimode:850nm 0~550M ,Single mode:1310nm 0~40KM,1550nm 0~120KM.		
System LED Indicators	Power indicator: PWR (yellow),System indicator: SYS(yellow),Network indicator: Link/Act (yellow), Fiber port :L/A(green)		
Switching Capacity, MAC Address Table Size	368Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K	598Gbps Non-blocking, 32K
Total Power, Input Volt.	55W, AC100-240	60W, AC100-240	60W, AC100-240
Packet Forwarding Rate	131Mpps @ 64byts, Full Speed Filtration		
MAC Address Table & Buffer Memory	32K & 32Mb, Support automatic updates, two-way learning		
QoS	WFQ (Weighted Fair Queuing); WRR (Weighted Round Robin); Head Of Line; Best-Effort Service; First come first served; 802.1p; Cos/Tos, QOS; Differentiated Service; Hardware support port-based IP+MAC Binding; Hardware support port-based ARP inspection detection;		
VLAN	Support port based VLAN (4K), IEEE802.1q, protocol based VLAN, Access, Trunk, Hybrid three types of port configuration, QinQ configuration		
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring, the self healing time of the ring network is less than 20ms		
Management Features	DHCP Client, DHCP Snooping Port Aggregation, Multicast, Storm Control, QoS, Hardware Priority Queue, Port Secuirity, IGMP v1/v2 snooping, Secure Sheel (SSH) Porotocol, Web GUI management, CLI Management		
Security Features	1.User grading management and password protection, 2. IEEE802.1X authentication / centralized MAC address authentication, 3. AAA & RADIUS authentication, 4. the number of MAC address learning restrictions, 5. MAC address black hole, 6. SSH 2 to provide secure passwords for user login, 7. SSL to ensure data transmission security, 8. Port isolation, 9. the speed limit function of ARP message, 10. IP source address protection, 11. ARP intrusion detection function, 12. Against DoS attacks, 13. Port broadcast message suppression, 14. Host data backup mechanism, 15. Binding capabilities of IP+MAC+VLAN+ ports		
Lighting Protection	Lightning protection :4KV 8/20us; Protection Level:IP30		
Switch Reset	Support one key to restore factory settings		
Installation Method	Desktop type, 19 inch 1U cabinet installation		
Operating/Storage Temp.	-20~+55°C;Humidity 5%~90% RH Non condensing, -40~+80°C; Humidity 5%~95% RH Non condensing		
Dimensions (LxWxH)	17.30x8.86x1.73 Inch		
Certification	CCC; CE mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B;RoHS;		
System Requirements	A) Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; B) 5 types and above Ethernet cable; C) TCP/ IP, network adapter and network operating system (such as Microsoft Windows, Linux or Mac OS X) are installed on computers in the network.		
Warranty	3 Years		

Footnote 1 - Network Protocols: IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-TX; IEEE802.3z 1000Base-LX/SX/CX; IEEE802.3ae, 0GBase-SR/LR;
Footnote 2 - EEE802.3x **Footnote** 2- Twisted Pair Transmission: 10BASE-T:Cat3,4,5 UTP (≤100 meter) ; 100BASE-TX: Cat5 or later UTP (≤100 meter); 1000BASE-T:Cat6 or later UTP (≤100 meter)

LinkPower™ Optical Transceivers

Model Name	Description	SFP Module
MM 2630C LC	RoHS Compliant Multimode LC 1.25Gbps 850nm 550M Optical Transceiver	
SM 2632C LC	RoHS Compliant Single Mode LC 1.25Gbps 1310nm Optical 20km Transceiver	
MM 6630C-SFP+ LC	RoHS Compliant Multimode LC 10Gb/s SFP+ 850nm 300m Optical Transceiver	
SM 7832C-SFP+ LC	RoHS Compliant Single Mode LC 10Gb/s SFP+ 1310nm 20km Optical Transmitter	

NOTE: For more LinkPower™ optical transceiver product information, please visist http://www.inscapedata.com

LinkPower™ PoE & Fiber Optic Switches come with a three-year limited warranty, For more information, please visit Inscape Data's website.

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For detailed information on features, compliance, and compatibility, please see each product's specific product brief.

WARRANTY INFORMATION

LinkPower Outdoor PoE Switches come with a three-year limited warranty, For more information, please visit Inscape Data's website.

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Website: http://www.inscapedata.com

*This brochure describes hardware features and capabilities. Please refer to the driver release notes on inscapedaat.com for feature availability.
*Actual product may differ from the images.

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