

## 20 Ports 10/100/1000M Managed Switch with 16 POE RJ45 + 4x 1G SFP

The Managed Switch LPG20-16Px-N features 16x POE port (IEEE802.3af or IEEE802.3at) and 4x SFP ports; auto sensing algorithm to give power to IEEE802.3af / IEEE802.3at devices. It provides power and data from same port. The switch discontinues the power when POE devices are disconnected.



### FEATURES

- 16x10/100/1000Base-T RJ45 ports
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.
- IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.
- Internal power adapter supply

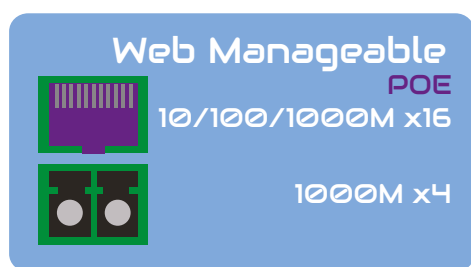
### SPECIFICATIONS

20 Ports 10/100/1000M Managed Switch with 16 POE RJ45 + 4x 1G SFP	
Number of POE ports (10/100/1000BaseT)	16
Number of 1G SFP ports	4
Power Pin Assignment	1/2 and 3/6 , or alternatively over 4/5(+) and 7/8 (-)
Performance Specifications	
Transmission Method	Store-And-Forward
Bandwidths	192 Gps
Network Protocol and Standards	IEEE 802.3i
	IEEE 802.3u
	IEEE 802.3x Flow Control
POE standard	IEEE802.3af or IEEE802.3at
POE power	15.4W per POE port (IEEE802.3af)
	25.4W per POE port (IEEE802.3at)
Environmental	
Operating temperature	-20 ~ 55°C
Storage temperature	-40 ~ 85°C
Operating humidity	5 ~ 95% non condensation
Power supply	external AC power supply (100-240V)
LED indicators	Power supply, network status, POE status
Physical	
Dimension	440 x 290 x 44mm
Weight	4kg

Layer2/2+ switching (SMART series only)	
<i>Spanning Tree Protocol (STP)</i>	Standard Spanning Tree 802.1d
	Rapid Spanning Tree (RSTP) 802.1w
<i>Aggregation</i>	Link Aggregation Control Protocol (LACP) IEEE802.3ad; up to 10 groups & 8ports per group
<i>VLAN</i>	Support up to 4k VLANs simultaneously (out of 40906 VLAN IDs); Port based VLAN; 802.1Q tag based VLAN
<i>IGMP v1/v2 snooping</i>	IGM limits bandwidth intensive multicast traffic to only the requesters.
	Support 1024 multicast groups (source-specific multicasting is not supported)
<i>Security</i>	
<i>Secure Shell (SSH) Protocol</i>	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
<i>Secure Sockets Layer (SSL), HTTPS</i>	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
<i>Port Security</i>	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
<i>DHCP Snooping</i>	Prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
<i>IP Source Guard</i>	Prevents datagram with spoofed addresses from being in the network
<i>ARP Inspection</i>	Prevent ARP spoofing attacks and ARP
<i>Storm Control</i>	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
<i>ACLs</i>	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
<i>Quality of Service</i>	
<i>Hardware</i>	Support 8 hardware queues
<i>Scheduling</i>	8 COS queues per port support strict priority and weighted round-robin (WRR)
<i>Classifications</i>	Port based; 802.1p(PCP) VLAN priority based;
<i>Rate Limiting</i>	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
<i>Management (Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)</i>	
<i>Web GUI</i>	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPS). Supports configuration, system dashboard, maintenance, and monitoring
<i>Port mirroring</i>	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
<i>Others</i>	Single IP management; HTTP/HTTPS; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
<i>Green Ethernet</i>	
<i>Green and Energy saving Ethernet (EEE)</i>	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
<i>Cable length detection</i>	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
<i>General</i>	
<i>Jumbo frames</i>	Frame sizes up to 10KB supported on Gigabit interfaces
<i>Mac table</i>	Up to 8k Mac address
<i>Discovery</i>	
<i>Link Layer Discovery Protocol (LLDP)</i>	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.

<i>Min Requirements</i>	Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network
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## FUNCTIONAL DIAGRAM



## ORDERING INFORMATION

PN	DESCRIPTION
LPG20-16Px-M	20 Ports 10/100/1000M Managed Switch with 16 POE RJ45 + 4x 1G SFP
x	F: IEEE802.3af (15.4W per port)
	T: IEEE802.3at (25.5W per port)