Quotation
ใบเสนอราคา

ชื่อผู้ติดต่อ : นายแพทย์สาธารณสุขจังหวัดชุมพร	เลขที่ : Q2019-1030-01
หน่วยงาน : สำนักงานสาธารณสุขจังหวัดชุมพร	วันที่ : 30 ตุลาคม 2562
สถานที่อยู่ : ถนนปรมินทร์มรรคา ตำบลท่าตะเภา อำเภอเมือง จังหวัดชุมพร 86000	อ้างถึง : ชพ 0032.001/ ว 5023
โทรศัพท์ : 077-511040 โทรสาร 077-511996	ปรับปรุงครั้งที่ : ลว. 25 ต.ค. 2562
ลักษณะงาน : อุปกรณ์กระจายสัญญาณเครือข่ายคอมพิวเตอร์และจอแสดงภาพ	ผู้ออกเอกสาร : มนัส ชัชวาลย์

Item ลำดับที่	Model รุ่น	Brand ยี่ห้อ	Project Description รายละเอียดโครงการ	Price/Unit ราคาต่อหน่วย	Qty. จำนวน	Amounts รวมเงิน
				-		-
1	AT-GS950/24	ATI	WebSmart switch 24 port 10/100/1000TX + 4 SFP Combo ports	21,000.00	1	21,000.00
2	65CCAAC6TH	Lenovo	LI2215s 21.5" WLED panel Monitor	4,000.00	3	12,000.00
				-		-
			** รายละเอียดสินค้า ตามเอกสารแนบ	-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-
				-		-

กำหนดยืนราคา :	30 วันหลังจากเสนอราคา	ราคารวม :	33,000.00
กำหนดส่งมอบสินค้า :	30 วันหลังจากสั่งซื้อ	ส่วนลดพิเศษ :	-
กำหนดการชำระเงิน :	100 % หลังจากส่งมอบสินค้า	ราคาคงเหลือ :	33,000.00
		ภาษีมูลค่าเพิ่ม :	-
การรับประกันสินค้า :	1 ปี	ราคารวมทั้งสิ้น :	33,000.00

สามหมื่นสามพันบาทถ้วน

หมายเหตุ
1. ราคาที่เสนอนี้ ได้รวมค่าขนส่งต่าง ๆ เรียบร้อยแล้ว
2. ราคาที่เสนอนี้ ได้รวมภาษีมูลค่าเพิ่ม 7% เรียบร้อยแล้ว
3. -

ข้าพเจ้ายินดี อนุมัติสั่งซื้อสินค้าตามใบเสนอราคานี้

ลงชื่อ _____

นาย มนัส ชัชวาลย์
ฝ่ายขายโครงการ
ผู้เสนอราคา
มือถือ 08-1479-9992
manas@24com.co.th

ลงชื่อ _____

- -
ผู้อนุมัติสั่งซื้อ

1.15

GS950 Series

Gigabit WebSmart Edge Switches

The Allied Telesis GS950 Series of WebSmart network switches demonstrates the Allied Telesis commitment to environmentally-friendly processes and products, minimizing power consumption through the use of a high efficiency power supply and a low power chipset. Featuring PoE+, GS950 Series switches at the network edge are the ideal cost-effective solution for small businesses.

1.13

PoE plus   eco friendly

Ease of management and high performance

These advanced Allied Telesis WebSmart switches combine the simplicity of unmanaged switches with the performance and reliability of managed switches. This provides a cost-effective, secure and reliable solution for integrated management at the network edge. With user-friendly web-based management, the GS950 Series is ideal for integrating simple management and security into your network solution.

1.4

Power over Ethernet (PoE)

The GS950/8POE, 10PS, 16PS, 28PS, 48PS switches are available in PoE configurations. What's more, the GS950/10PS, 16PS, 28PS, 48PS switches support PoE+ (IEEE 802.3at), with the capability of delivering up to 30W per port.

1.6

PoE allows users to connect and power a device using a single Ethernet cable, thus eliminating the need for additional power outlets and simplifying installation. Furthermore, this system is unaffected by any local variance in AC power, offering a standardized power infrastructure.

1.9

Key Features

VLAN
▶ IEEE 802.1Q tagged
▶ Port-based
▶ Up to 256 groups

Quality of Service Classification
▶ IEEE 802.1p tagging   1.8
▶ Port-based priority
▶ Four priority queues per port

IP Multicast Support (IPv4)
▶ IGMP snooping (v1/v2)
▶ Static multicast group (up to 256)
▶ Spanning-Tree, IEEE 802.1d/w/s   1.7

IEEE 802.3ad Link Aggregation
▶ Manual
▶ LACP (not on GS950/8, 16, 24, 48)

IEEE 802.1x Port-based, MAC-based and Network Access Control
▶ Local authentication server (MD5 only)
▶ Remote authentication through RADIUS
▶ Dynamic VLAN assignment
▶ RADIUS Client

Other
▶ IEEE 802.3x flow control or HOL* blocking prevention (* when flow control is off)
▶ Port mirroring
▶ Destination MAC filtering
▶ Ingress/egress rate limiting
▶ Broadcast storming control
▶ 100 FX SFP support
▶ Jumbo Frames - up to 10K

Management Features
▶ Web-based configuration
▶ CLI configuration on GS950PS Series
▶ SNMP trap view
▶ LLDP
▶ Firmware upgrade by FTP and HTTP
▶ Configuration backup/restore by FTP and HTTP
▶ Factory reset
▶ Password access control and restricted
▶ IP access list
▶ SNMPv1/v2c/v3   1.11
▶ DHCP client
▶ Syslog support
▶ System time configuration (SNTP, manual)
▶ Statistics Charts in Web

MIBs   1.11
▶ RFC 1213 MIB-II
▶ RFC 1643 Ethernet MIB
▶ RFC 1493 Bridge MIB   1.11
▶ RFC 2131 DHCP client
▶ Private Enterprise MIB (Allied Telesis provides the spec)

RMON Groups (1, 2, 3, 9)   1.12
▶ Stats
▶ History
▶ Alarms
▶ Events

1.5

ACL
▶ 240 entries (shared)

Specifications

Product specifications

PRODUCT	10/100/1000T COPPER PORTS	100/1000X SFP PORTS	TOTAL PORTS	POE+ ENABLED PORTS	SWITCHING FABRIC	FORWARDING RATE
GS950/8	6 + 2 (Combo)	2 (Combo)	8	-	16Gbps	11.90 Mpps
GS950/8POE	6 + 2 (Combo)	2 (Combo)	8	4[1]	16Gbps	11.90 Mpps
GS950/10PS	8 + 2 (Combo)	2 (Combo)	10	8	20Gbps	14.88 Mpps
GS950/16	14 + 2 (Combo)	2 (Combo)	16	-	32Gbps	23.80 Mpps
GS950/16PS	14 + 2 (Combo)	2 (Combo)	16	16	32Gbps	23.80 Mpps
GS950/24	20 + 4 (Combo)	4 (Combo)	24	-	48Gbps	35.71 Mpps
GS950/28PS	24	4[2]	28	24	56Gbps	41.66 Mpps
GS950/48	44 + 4 (Combo)	4 (Combo)	48	-	96Gbps	71.42 Mpps
GS950/48PS	44 + 4 (Combo)	4 (Combo)	48	24	96Gbps	71.42 Mpps

[1] Only POE (15.4W) can be supported   [2] Only 1000X SFP can be supported

Power characteristics 100-240V AC, 50-60Hz(GS950/8POE: 90-240V)

PRODUCT	NO POE LOAD			FULL POE+ LOAD			POE POWER BUDGET(W)	POE SOURCING PORTS		
	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/h)	MAX NOISE (dBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/h)	MAX NOISE (dBA)		POE (7.5W)	POE (15.4W)	POE+ (30W)
GS950/8	8.7	29.69	Fanless	-	-	-	-	-	-	-
GS950/8POE	10	34.12	Fanless	87.5	298.56	Fanless	61.6	4	4	-
GS950/10PS	14.44	49.27	Fanless	92.7	316.31	Fanless	75	8	4	2
GS950/16	12.92	44.08	Fanless	-	-	-	-	-	-	-
GS950/16PS	21.8	74.38	47 dB@98% >25C 38.2dB@52% <25C	228.5	779.67	47 dB@98% >25C 38.2dB@52% <25C	185	16	12	6
GS950/24	17.35	59.20	Fanless	-	-	-	-	-	-	-
GS950/28PS	28.6	97.59	58.5dB >25C 55.2dB <25C	238	812.09	58.5dB >25C 55.2dB <25C	185	24	12	4[3]
GS950/48	42.97	146.62	47dB@98% >25C 38.5dB@58% <25C	-	-	-	-	-	-	-
GS950/48PS	55.6	189.72	51.6dB >25C 38.7dB <25C	446	1521.82	51.6dB >25C 38.7dB <25C	370	24	24	12

Note: Noise values are dependent on the ambient temperature, not POE load. Above 25C the fan runs at full speed.
[3] It supports between port-1 and port-4 (Only 4 ports can be used with 30W PoE power budget).

Physical specifications

PRODUCT	HEIGHT	WIDTH	DEPTH	WEIGHT
GS950/8	44 mm (1.73 in)	280 mm (11.02 in)	180 mm (7.09 in)	1.50 Kg (3.30 lbs)
GS950/8POE	43 mm (1.70 in)	330 mm (13.00 in)	230 mm (9.06 in)	2.54 Kg (5.60 lbs)
GS950/10PS	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	1.90 Kg (4.20 lbs)
GS950/16	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	2.10 Kg (4.60 lbs)
GS950/16PS	44 mm (1.73 in)	430 mm (17.00 in)	250 mm (9.80 in)	3.56 Kg (7.85 lbs)
GS950/24	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	2.30 Kg (5.10 lbs)
GS950/28PS	44 mm (1.73 in)	450 mm (17.71 in)	250 mm (9.80 in)	3.60 Kg (7.93 lbs)
GS950/48	43.2 mm (1.70 in)	444 mm (17.48 in)	257 mm (10.12 in)	4.10 Kg (9.00 lbs)
GS950/48PS	44 mm (1.73 in)	440 mm (17.32 in)	430 mm (17.00 in)	6.62 Kg (14.60 lbs)

Performance
14,880pps for 10Mbps Ethernet
148,800pps for 100Mbps Ethernet
1,488,000pps for 1000Mbps Ethernet
MAC addresses: 8K
VLAN IDs available: 4K
Max VLANs: 256
Packet buffer: 1MB
DRAM: 64MB
Flash: 16MB

Interface connections
10/100/1000T: RJ-45
SFP: 100TX, 100FX, 1000T,
                     1000SX or 1000LX

Technical specifications
Wall-mount or desktop
All units come with wall /19 in rack-mount brackets

Environmental specifications
Operating temperature: 0ºC to 45ºC (32ºF to 113ºF)
Stprage temperature: -25ºC to 70ºC (-13ºF to 158ºF)
Operating humidity: 5% to 90% non-condensing
Storage humidity: 5% to 95% non-condensing
Vibration: IEC 68-2-36
Shock: IEC 68-2-29
Drop: IEC 68-2-32
Flammability: UL94V-0
                         (GS950/10PS, 16PS, 28PS, 48PS only)

Environmental compliance
RoHS
China RoHS
WEEE
Eu-RoHS   (GS950/10PS, 16PS, 28PS, 48PS only)

Electrical/mechanical approvals
GS950/8, 8POE, 16, 24, 48
UL 1950
FCC/EN55022 Class A
VCCI Class A
C-Tick
EN60950 (TUV)
EN55024
CE
CSA / CUL

GS950 Series | Gigabit WebSmart Edge Switches

GS950/10PS, 16PS, 28PS, 48PS
UL60950-1 2nd edition (UL)
FCC/EN55022/CISPR 22 Class A
VCCI Class A
C-Tick
EN60950 (TUV)
EN55024
CE Mark
CSA / CUL

Standards and compliance

RFC 792	ICMP
RFC 1213	MIB-II
RFC 1350	TFTP
RFC 1492	TACACS
RFC 1769	SNTP (Simple Network Time Protocol)
RFC 2131	DHCP client
RFC 2236	IGMP
RFC 2461	NDP (Neighbor Discovery protocol)
RFC 2616	HTTP
RFC 2866	RADIUS
RFC 4330	SNTP
RFC 5343	SNMP
RFC 6101	SSL
IEEE 802.3	CSMA/CD
IEEE 802.3i	10T
IEEE 802.3u	100TX
IEEE 802.3z	1000SX/LX
IEEE 802.3z/ab	1000T
IEEE 802.3x	Flow control
IEEE 802.1p	Prioritization (four queues)
IEEE 802.1x	Authentication
IEEE 802.1x	Local authentication server(MD5)
IEEE 802.1x	Remote authentication through RADIUS
IEEE 802.1x	Dynamic VLAN assignment
IEEE 802.1x	MAC-based authentication
IEEE 802.1x	RADIUS
IEEE 802.1d	Bridging
IEEE 802.3ad	Link aggregation
IEEE 802.3ad	Port trunking and LACP **1.10**
IEEE 802.1Q	Tagged VLAN
IEEE 802.1d	Spanning-Tree
IEEE 802.1w	Rapid Spanning-Tree
IEEE 802.1s	Multiple Spanning-Tree
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet

Ordering information

Model availability can vary between regions. Please check our website to see which models are available in your region.

AT-GS950/8-xx
8-port 10/100/1000T eco-friendly WebSmart switch with 2 SFP combo ports

AT-GS950/16-xx
16-port 10/100/1000T eco-friendly WebSmart switch with 2 SFP combo ports

AT-GS950/24-xx
24-port 10/100/1000T eco-friendly WebSmart switch with 4 SFP combo ports

AT-GS950/48-xx
48-port 10/100/1000T eco-friendly WebSmart switch with 4 SFP combo ports

AT-GS950/8POE-xx
8 port 10/100/1000T PoE fanless WebSmart switch with 2 SFP combo ports

AT-GS950/10PS-xx
10-port 10/100/1000T POE+ (8 POE+ Enabled) WebSmart switch with 2 SFP combo ports

AT-GS950/16PS-xx
16-port 10/100/1000T POE+ WebSmart switch with 2 SFP combo ports

AT-GS950/28PS-xx
24-port 10/100/1000T POE+ WebSmart switch with 4 SFP ports

AT-GS950/48PS-xx
48-port 10/100/1000T POE+ (24 POE+ Enabled) WebSmart switch with 4 SFP combo ports

Package contents

Switch unit
Rack-mount brackets and screws
Power cord
Rubber feet
User manual/install guide on CD
   (GS950/8POE only)

Small Form Pluggable Optics Modules

AT-SPSX
SFP, MMF, 1000Mbps, 220/500 m, 850 nm, LC

AT-SPLX10
SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC

AT-SPFX/2[4]
SFP, MMF, 100Mbps, 2 km, 1310 nm, LC

AT-SPFX/15[4]
SFP, SMF, 100Mbps, 15 km, 1310 nm, LC

AT-SPBD10-13
SFP, SMF, 1000Mbps, 10 km, 1310/1490 nm, LC-BiDi

AT-SPBD10-14
SFP, SMF, 1000Mbps, 10 km, 1490/1310 nm, LC-BiDi

[4] Not supported on GS950/28PS

Where xx =   10 for US power cord
             20 for no power cord
             30 for UK power cord
             40 for Australian power cord
             50 for European power cord

Allied Telesis

NETWORK SMARTER

Lenovo™ LI2215s Monitor

DISPLAY OF EXCEPTIONAL VALUE.

A Versatile Monitor, Feature-Packed, Affordably Priced.

Why compromise performance for price? The Lenovo™ LI2215s monitor meets value with performance. Full HD (1920 x 1080) resolution in 21.5″ wide screen provides crisp text and brilliant images. Ideal at home or home offices, it features tilt-adjustable stand with VGA port for versatile connectivity with PCs. Definitely green certified with ENERGY STAR® 7.0 and EPEAT™ Silver, LI2215s is a perfect choice of any green-conscious consumer.

WHY YOU SHOULD BUY THE LENOVO™ LI2215s MONITOR

Display of Brilliance

The bright 21.5″ WLED backlight, wide angle display delivers Full HD (1920 x 1080) resolution and exceptionally sharp contrast for crisp text and brilliant images.
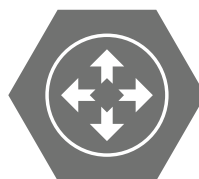
Totally Versatile

Connect to any devices with built-in VGA interface. The convenient tilt-adjustable stand suits any environment.

Certified Green

This eco-friendly monitor conforms to achieve ENERGY STAR® 7.0, EPEAT™ Silver, CEL Tier 2 certifications among others.

WWW.LENOVO.COM

Lenovo™ LI2215s Monitor

SPECIFICATIONS

PERFORMANCE

Panel Type
TN

Backlight
WLED

Maximum Brightness (Typical)
200 cd/m²

Viewing Angle (H/V at CR 10:1)
90°/65°

Contrast Ratio (Typical) 2.4
600:1

Pixel Pitch (W x H)
In mm   : 0.2482 x 0.2482
In inches: 0.009" x 0.009"

Color Gamut (CIE 1931)
72%

Display Colors (Typical)
16.7 Million

Response Time
5 ms

Anti-Glare
Yes

Power Consumption
Typical   : 16W
Maximum   : 18W
Sleep Mode : 0.5W
Off Mode   : 0.5W

Power Supply
Internal

Input
90 VAC — 264 VAC, 1.5 A — 0.8 A

DESIGN

Panel Size 2.1
21.5"

Resolution 2.2
Full HD (1920 x 1080)

Aspect Ratio
16:9

Screen Dimensions (W x H)
In mm   : 476.64 x 268.11
In inches : 18.76" x 10.55"

Kensington® Lock
Yes

VESA® Mounting
Yes

Bezel Color
Raven Black

Bezel Width (mm / inches)
Top   : 18.48 / 0.73"
Bottom   : 30.08 / 1.18"
Sides   : 15.58 x 0.61"

Tilt Angle
‾5° / 21°

Dimensions (W x D x H)
Monitor Size with Stand
In mm   : 509.2 x 190 x 399
In inches : 20.05" x 7.48" x 15.71"

Packaging Size
In mm   : 567 x 126 x 401
In inches : 22.32" x 4.96" x 15.79"

Weight
Packed   : Starting at 9.83 lbs (4.46 kg)
Unpacked: Starting at 6.86 lbs (3.11 kg)

CONNECTIVITY

Video Input Signals
VGA

Length of Video Cables Supplied
VGA : 1.8 m

OSD Languages
English
French
Italian
German
Spanish
Japanese
Chinese
Russian

COMPLIANCE

• Arsenic-free Glass
• PVC-free
• Mercury-free
• EPEAT™ Silver
• ENERGY STAR® 7.0
• RoHS (EU 2002/95/EC)
• China Energy Efficiency Standard Tier 2
• Windows Certification (Windows 7 / Windows 10)

Lenovo
LI2215s
User Guide

Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Flat Panel technology is inherently flicker-free.

Note: If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to re-attach the CRT monitor temporarily until you have re-configured the system; preferably to 1920x1080 at 60Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

Table 2-3.Factory set display modes

Addressability	Refresh rate
PAL	50Hz
640x350	70Hz
640x480	60Hz, 72Hz,75Hz
720x400	70Hz
800x600	56Hz,60Hz,72Hz,75Hz
832x624	75Hz
1024x768	60Hz,70Hz,75Hz
1152x864	75Hz
1280x1024	60Hz,70Hz,75Hz
1366x768	60Hz
1440x900	60Hz
1600x900	60Hz,75Hz
1680x1050	60Hz
1920x1080	60Hz 2.3

Understanding power management

Power management is invoked when the computer recognizes that you have not using your mouse or keyboard for a user-definable period. There are several states as described in the table below.

For optimal performance, switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

Table2-4.Power indicator

State	Power Indicator	Screen	Restoring Operation	Compliance
On	Steady green	Normal		
Standby/ Suspend	Steady amber	Blank	Press a key or move the mouse. There may be a slight delay reappears. Note: Standby also occurs if there is no image output to the monitor.	ENERGY STAR
Off	Off	Off	Press power key to switch on There may be a slight delay before the image reappears.	ENERGY STAR