Ubigate iES4000 Series Ethernet Switches
General Availability

Samsung Telecommunications America is pleased to announce the general availability of our new line of **Ubigate iES4000 Series Ethernet Switches.** They are available for order beginning June 7, 2010
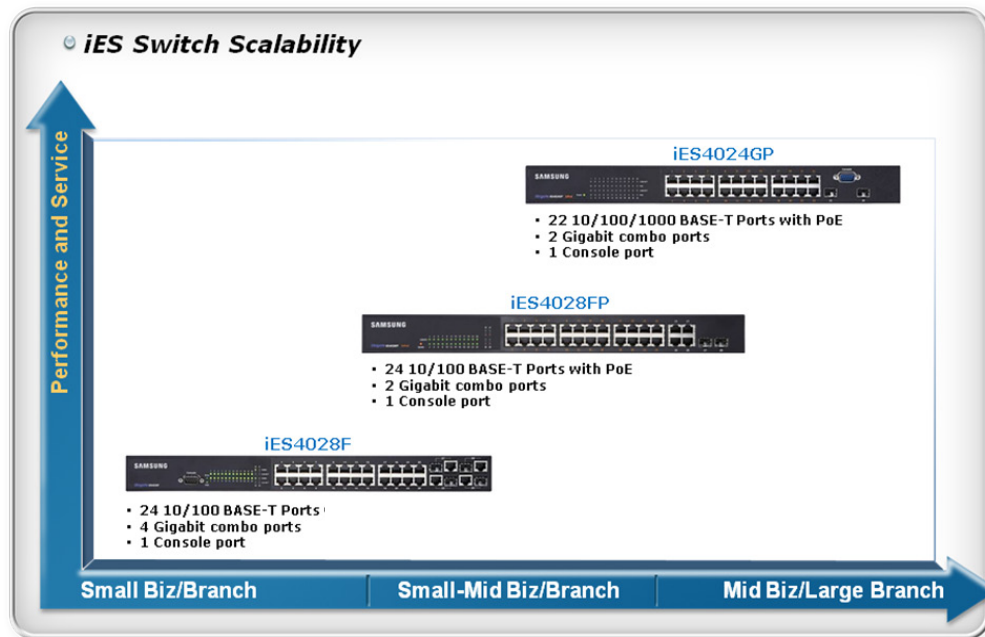
Ubigate iES4000 Series Ethernet layer 2 managed workgroup switches are a perfect solution for today's IP Telephony requirements with lower cost of ownership, simple management and high availability. They are available with or without PoE and 10/100M or 1000M (Gigabit) wire speeds. Technical Certification is quick and easy with a course fee of only $50.

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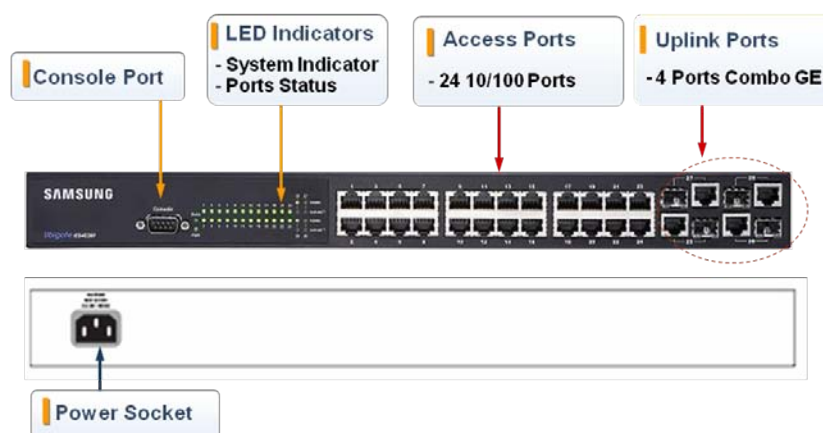
MODEL PORTFOLIO

Samsung offers three popular models ranging in price and performance to fit almost any Ethernet network requirement.

The following three diagrams show individual configurations and physical layout of each model followed by tables detailing the hardware specifications and software functionality.
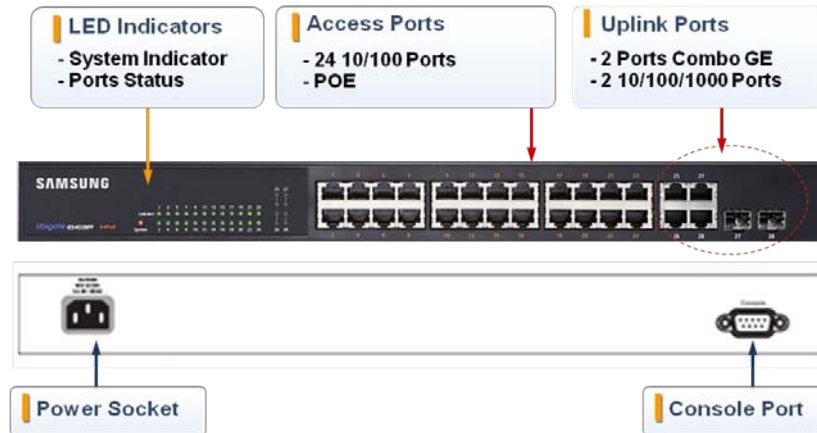
UBIGATE iES4028F
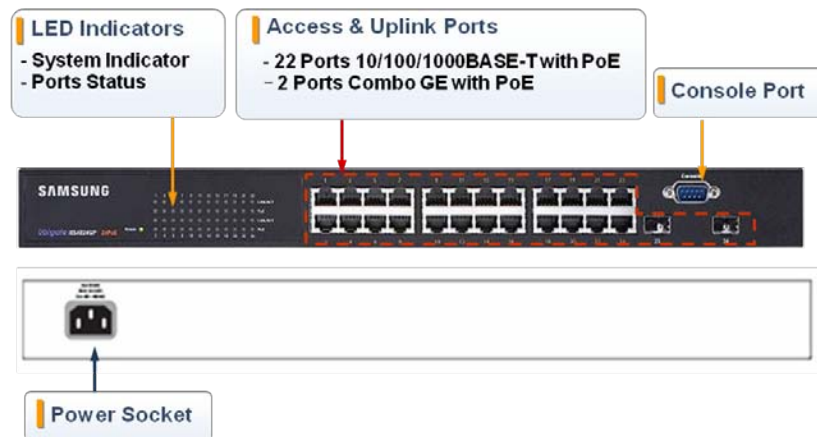## 24-port 10/100 Managed Layer 2 Switch and 4 GE ports

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UBIGATE iES 4028FP
24-port 10/100 Managed Layer 2 Switch with PoE and 4 GE Ports

LED Indicators
- System Indicator
- Ports Status

Access Ports
- 24 10/100 Ports
- POE

Uplink Ports
- 2 Ports Combo GE
- 2 10/100/1000 Ports

Power Socket

Console Port

UBIGATE™ iES4024GP
22-port 10/100/1000 Managed Layer 2 Switch with PoE and 2 Combo Ports

LED Indicators
- System Indicator
- Ports Status

Access & Uplink Ports
- 22 Ports 10/100/1000BASE-T with PoE
- 2 Ports Combo GE with PoE

Console Port

Power Socket

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PRODUCT SPECIFICATIONS - HARDWARE

	iES4028F	iES4028FP	iES4024GP
PORTS	24 10/100BASE-T ports 4 Gigabit combo ports 1 Console port	24 10/100BASE-T ports with PoE 2 10 10/100/100BASE-T ports 2 Gigabit combo ports 1 Console port	22 10/100/1000BASE-T ports with PoE 2 Gigabit combo ports with PoE 1 Console port
SWITCH FABRIC	12.8Gbps 9.5Mpps	12.8Gbps 9.5Mpps	48Gbps 35.7Mpps
SWITCHING DB	8K MAC address entries	8K MAC address entries	8K MAC address entries
WEIGHT	3kg 6.7 lbs	4.13kg 9.11lbs	4.33kg 9.53 lbs
DIMENSION	4.3 x 44 x 17.2cm 1.7 x 17.3 x 6.7inch	4.3 x 44 x 33cm 1.7 x 17.3 x 12.992inch	4.3 x 44 x 32cm 1.7 x 17.3 x 12.6inch
AC INPUT	100 to 240V, 50-60Hz	100 to 240V, 50-60Hz	100 to 240V, 50-60Hz
POWER CONSUMPTION	30W	225W (System 45W, PoE 180W)	225W (System 45W, PoE 180W)
POWER-OVER-ETHERNET	NA	- Maximum output power per port : 15.4W - Maximum output power per port : 7.5W simultaneously	- Maximum output power per port : 15.4W - Maximum output power per port : 7.5W simultaneously
NETWORK INTERFACE	10/100 BASE-T ports 10/100/1000 BASE-T ports - SFP Transceiver slots supporting SX, LX and ZX SFP - Multimode fiber cable : 62.5/125 or 50/125 microns - Single mode fiber cable : 9/125 micron		

FUNCTIONALITY - SOFTWARE

FEATURES	DESCRIPTION
FLOW CONTROL	- IEEE 802.3x for full duplex mode - Back pressure flow control half duplex mode
SPANNING TREE	- IEEE 802.1D STP - IEEE 802.1w RSTP - IEEE 802.1s MSTP - Spanning Tree Fast Forwarding - Auto Edge - Loop Protection

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FEATURES	DESCRIPTION
VLAN	• 802.1Q Tag-based VLAN • 802.1Q Port-based VLAN • 802.1v Protocol-based VLAN • 256 VLANs entries out of 4K VLAN IDs • GVRP • Voice VLAN
IGMP SNOOPING	• V1,v2,v3 • Querier • Immediate Leave • Filtering and throttling
LINK AGGREGATION	• IEEE 802.3ad with LACP - 8 aggregation groups up to 8 ports
MVR	• Yes
JUMBO FRAME	• 10K in gigabit ports
QNQ	• Yes

QUALITY OF SERVICE	• Priority queue
	  - Scheduling : Strict priority, WRR
	  - 4 queues per port
	• DiffServ
	• COS
	  - IEEE 802.1p, DSCP based COS
	• Rate limiting (Per Port based)
	  - Ingress, Egress

SECURITY	• Storm Control
	  - Broadcast storm
	  - Multicast storm
	  - DLF (Destination Lookup Failure)
	• MAC Address filtering
	• Username/Password authentication
	• Access control list (L2/L3/L4)
	• AAA
	  - RADIUS, TACACS+
	• MAC based Authentication
	• HTTPS/SSL
	• SSHv1/v2
	• 802.1x
	  - Port-Based
	  - Supplicant Support
	  - VLAN Assignment
	  - Guest VLAN
	  - Co-works with Radius, TACACS+ server

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FEATURES	DESCRIPTION
	• Management Interface Access filtering - SNMP, WEB, Telnet • DHCP Snooping • IP Source Guard

MANAGEMENT	• Management method
	   - Web-based
	   - Telnet (4 sessions)
	• Software download
	   - TFTP, Xmodem
	• Dual Firmware Images
	• Configuration file download
	   - TFTP
	• SNMP v1/v2c/v3
	• RMON (group 1, 2, 3, 9)
	• BOOTP
	   - Client
	• DHCP
	   - Client
	   - Relay(Option82)
	• Port mirroring (one-to-many)
	• Event/Error Log
	   - Local, Syslog, SMTP
	• Remote Ping
	• SNTP
	• NTP
	• IEEE 802.1ab(LLDP)
	• UPnP
	• Banner
	• Web authentication
	• IP Clustering (36 members)

ADMINISTRATION

There are two methods of administration:

1. **CLI Based:**

```
Username: admin
Password:

 CLI session with the Ubigate iES4024GP* is opened.
 To end the CLI session, enter [Exit].

Console#configure
Console(config)#username guest password 0 [password]
Console(config)#username admin password 0 [password]
Console(config)#
```

2. **Web Based:**

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ORDERING

Effective June 7th, 2010 the new Ubigate Ethernet Switches can be ordered online on GSBN or by using the Excel Order Form (available for download, for Samsung Direct Dealers and Samsung Distributors, on GSBN under Communication ➡ Sales and Marketing ➡ Downloads ➡ Order Form). The new part numbers are listed below.

Ubigate			
UBIGATE ETHERNET SWITCHES		**$US**	**$CAN**
IES-4028F/XAR	iES 24 port 10/100M Layer 2 Managed Ethernet Switch **3 Year Warranty**	$350.00	$364.00
IES-4028FP/XAR	iES 24 port 10/100M Layer 2 Managed PoE Ethernet Switch **3 Year Warranty**	$775.00	$806.00
IES-4024GP/XAR	iES 22 port 10/100/1000M Layer 2 Managed PoE Ethernet Switch **3 Year Warranty**	$1,150.00	$1,196.00

DOCUMENTATION

Each Ubigate iES4000 Series Ethernet Switch includes a printed copy of an Installation Manual and a CD containing this manual and the Management Guide in PDF format.

Ubigate documentation is also available for downloading on the on the Samsung's GSBN website at http://www.samsunggsbn.com/.

Documentation	Location on GSBN
iES4028F Installation Manual	Communication ➡ Technical Support ➡ Downloads ➡ Ubigate
iES4028FP Installation Manual	
iES4024GP Installation Manual	
iES4000 Series Management Guide for the iES4028F, iES4028FP, and iES4024GP	
Ubigate iES4000 Series Sales Brochure	Communication ➡ Sales and Marketing ➡ Downloads ➡ Brochures
Ubigate iES4000 Series Customizable Sales Brochure	Communication ➡ Sales and Marketing ➡ Downloads ➡ Dealer Templates —OR— Communication ➡ Sales and Marketing ➡ Downloads ➡ Reseller Templates
Ubigate iES4000 Series Introduction Presentation	Communication ➡ Sales and Marketing ➡ Downloads ➡ General Description

NOTE: Product documentation requires Adobe® Reader 7.0 or higher. To download the latest version of Adobe Reader go to http://get.adobe.com/reader/

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TRAINING AND CERTIFICATIONS

Samsung provides a convenient online *Ubigate iES4000 Series (#4010-01-0L)* certification course for technicians to access and learn about the Ubigate Ethernet Switches on their own time. The cost of the Ubigate iES4000 Series course is $50.00.

Successful completion of this certification course is required to receive Technical Support on the Ubigate iES4000 Ethernet switches.

NOTE: This certification course only covers basic switch configuration and requires that you are familiar with basic networking functions and terminology. Knowledge for more complex switch configurations that require many steps for proper operation can be obtained by referring to the Management Guide.

For more information about the Ubigate iES4000 Series certification course content and for instructions on how to purchase this course refer to Training News TN060710.

If you have any questions related to this training course please refer to *Training Bulletin TN060710: Ubigate iES4000 Series Ethernet Switches Online Certification Course,* or contact the Samsung Training Department at 800-876-4782 Opt 3 or 972-792-2094 or via e-mail at BCS.Training@samsung.com.

QUESTIONS?

If you have any questions regarding this product Bulletin, please contact your Regional Sales Manager, or Sales Engineers at the number provided below, or send an email to BCS.Sales@samsung.com.