**SCM Express** is a Large-Midsize-Biz Oriented All-in-one Solution

SCM Express is a comprehensive communication solution for large and midsize business with smaller IT staffs, delivering enterprise-level performance. Samsung Communication Manager for call control and rich applications such as voice mail, conference, UC, mobility are integrated on a single appliance.

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**SCM Express** is a Large-Midsize-Biz All-in-one Solution

For large and midsize business who needs the increased performance with smaller IT resources, SCM Express is a perfect easy-to-manage solution delivering values with an affordable price.

- **Easy Management**
  - Installs in under a few hours, easy management tools reduce time and money spent on system administration

- **Low TCO**
  - Bundled software license lowers software costs, single-server architecture reduces hardware costs and the solution simplicity lowers management costs

- **Compatibility**
  - Openness provides SIP features (300+) and CSTA Link for 3rd party connectivity

- **Scalability**
  - For enhanced performance as your business grows, simply add user licenses without costly S/W change

- **Flexibility**
  - Simplified MAC (move, add and change) process with hot desking enables ‘work-as-you-go’ environment setting
### System Configuration

#### Standard Protocol IP-PBX
- 430,000 BHCC
- Max. 30,000 user IP-phones
- 1,024 Media Gateway
- Unified IP Telephony network between HQ and branch office
- Easy & Simple Install/Management

#### Media Gateway Full Line-up
- Cost effective voice gateway: OfficeServ series
- Multi service business gateway: iBG series

#### Embedded Applications
- Conference service: Max 128 ch.
- Unified Messaging System
- ACD Lite

### Specification and Features

#### Standard Protocol IP-PBX
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### Embedded Applications

#### MCS [Multimedia Conference Service]
- Standard SIP
- Max. 128 ch. conference
- Pre-Defined/Progressive/Meet-Me/Paging Conference
- Call Recording Audio
- Conference channel status monitoring
- e-mail sending for meet-me conference.
- Open a conference room and status check via PWP

#### UMS [Unified Message Service]
- Standard SIP
- 64 ch. for concurrent connection
- IMAP for e-mail connection
- Real time port status monitoring

#### ACD [Automatic Call Distribution] Lite
- Queuing control
- Routing control
- Agent status
- Real time monitoring: waiting call, agent number and etc
- Statistics for each ACD group

### System Capacity

<table>
<thead>
<tr>
<th></th>
<th>SCM-Express</th>
<th>SCM-Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
<td>Max 3,000</td>
<td>Max. 30,000</td>
</tr>
<tr>
<td>Gateway</td>
<td>Max 256.</td>
<td>Max 1,024</td>
</tr>
<tr>
<td>BHCA</td>
<td>60,000</td>
<td>430,000</td>
</tr>
<tr>
<td>CPS</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>Concurrent Call</td>
<td>1,000</td>
<td>7,200</td>
</tr>
<tr>
<td>Conference Channel</td>
<td>128</td>
<td>128</td>
</tr>
<tr>
<td>UMS Channel</td>
<td>64</td>
<td>8 parallel UMS</td>
</tr>
</tbody>
</table>

### H/W Specifications

<table>
<thead>
<tr>
<th></th>
<th>SCM-Express</th>
<th>SCM-Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Unit</td>
<td>1 RU</td>
<td>1 RU</td>
</tr>
<tr>
<td>CPU</td>
<td>1 Quad Core Processor</td>
<td>2 Quad Core Processor</td>
</tr>
<tr>
<td>RAM</td>
<td>4GB</td>
<td>16GB</td>
</tr>
<tr>
<td>Redundancy</td>
<td>System</td>
<td>Active-Standby</td>
</tr>
</tbody>
</table>

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More than you can imagine.
Communication is the driving force behind every organization, and your own communication infrastructure is your primary asset providing effective links to your mobile workforce and to the outside world. Convergence within your infrastructure, supporting VoIP, IP based data, wireless solutions, and traditional voice, delivers a huge impact on your network effectiveness and efficiency. Samsung’s experience and award winning innovations in wire line, wireless, digital and IP technology, and core networks, have produced the next generation fully converged communications solution, OfficeServ 7000.

Media Gateway - Samsung OfficeServ Series

OfficeServ 7400
- All-in-one IP Convergence PBX
- 32 Universal Slot within 3 Cabinets, Up To 500 Users
- Full PBX Voice Features
- Router, Firewall, IDS, VPN
- SIP Compliant Trunk
- Gigabit L2/3 switching, VoIPv6, T3 45Mbps routing

OfficeServ 7200
- All-in-one IP Convergence PBX
- 10 Universal Slot within 2 Cabinets, Up To 128 Users
- Full PBX Voice Features
- Router, Firewall, IDS, VPN
- Embedded VMS & VoIP GW
- SIP Compliant Trunk

OfficeServ 7100
- All-in-one IP Convergence PBX
- 2 Universal Slot, Up To 52 Users
- Full PBX Voice Features
- Router, Firewall, IDS, VPN
- Programmable VMS & VoIP GW
- SIP Compliant Trunk

Media Gateway - Samsung Ubigate iBG Series

With full routing capabilities, enterprise-class switching capacity, VoIP and best-in-class integrated security, the Samsung UbigateTM iBG Series Convergence Platform replaces a multitude of special-purpose network devices and delivers an agile and efficient network infrastructure. The UbigateTM iBG Series enables true enterprise voice and data convergence through a wide range of QoS features and supports both analog and IP phones.

Ubigate™ iBG3026
- Integrated Business Gateway for Enterprise
- Routing, Voice, L2/L3 Switching (PoE)
- Security : F/W, VPN
- 500Kpps Forwarding
- Up to 2 T3 + 6 T1/E1 or 14 T1/E1 WAN
- Up to 54 GE LAN
- Up to 4 T1/E1PRI, 60 FXS/FXO

Ubigate™ iBG2016
- Integrated Business Gateway for SMB
- Routing, Voice, L2/L3 Switching (PoE)
- Security : F/W, VPN
- 300Kpps Forwarding
- Up to 10 T1/E1 WAN,
- Up to 20 GE LAN
- Up to 4 T1/E1 PRI, 40 FXS/FXO

Ubigate™ iBG2006
- Integrated Business Gateway for Small Biz
- Routing, Voice, L2 Switching
- Security : F/W, VPN
- 150Kpps Forwarding
- Up to 4 T1/E1 WAN,
- Up to 16 FE LAN
- Up to 2 T1/E1 PRI, 16 FXS/FXO

Ubigate™ iBG1003
- Integrated Business Gateway for Small Biz
- Routing
- Security : F/W, VPN
- 130Kpps Forwarding
- Up to 4 T1/E1 WAN
Samsung Business IP-Phones

Integrated with PC, Samsung UC IP Phone Series provide perfect IP Telephony business environment with escalated multimedia UC Solutions such as presence, scheduler, UMS, and MCS. Especially SMT-i5200 series has significant competitive advantage in video solutions not to mention its award winning modern design. Take full advantage of IP telephony that will position your business for efficiency and success.

State-of-the-art IP Phone
Samsung’s SMT-i series SIP phones can make your business more efficient, collaborative and agile with enhancing productivity and communication among employees and off-site colleagues while helping to reduce costs.

Greater Functionality
Samsung SIP Phones offer greater functionality including call handling directories, integration with a contact list and a hot desk ing/call capability that allows users to transfer their extension number and personal settings to any phone on the network.

Plug and Talk Simplicity
For customers using SIP Trunks to route calls at low cost over the internet, IP handsets that plug straight into the network/phone system are simpler to install than digital handsets that require a media gateway card in the PBX.

Intuitive User-oriented Experience
Easy-to-navigate menus and navigation button ensure even the newest user can take advantage of all features and functionality intuitively.

Standard XML-based Additional Applications
XML web browser gives customers and system integrators the ability to integrate the handset with business applications, customize the display with corporate logos/colors; or display multimedia content from other sources such as weather forecasts, news feeds and stock reports.

Award-winning Design
Ergonomic design of Samsung SIP Phones won world-class design awards including IF Communications Design Award and Good Design Award. Every little parts of IP handsets are designed for user behavior according to Samsung’s Design philosophy.

Robust Security
Both the 3100 and 5200 series handsets come with robust security features, SRTP(Secure Real Time Protocol) speech encryption and IP Address Security technology.
Samsung Ethernet Switch - Ubigate iES4000 Series

Ubigate iES4000 Series Ethernet workgroup switches are a perfect solution for today’s IP Telephony environments with low TCO, simple management, and highest stability.

**iES4028FP/iES4028F**
- 9.5 Mpps
- 100 to 240 V, 50-60 Hz
- IEEE 802.3x for full duplex mode
- 12.8 Gbps
- 48 Gbps

**iES4024GP**
- 10K in gigabit ports
- 35.7 Mpps
- 12.8 Gbps
- 48 Gbps

**iES4024GP** provides speed 10/100/1000 Gigabit Ethernet switching with PoE. Two additional Gigabit Combo ports are supported. The switch shows an excellent price/performance ratio. Their IP clustering feature allows up to 36 switches to be managed in a logical group using a single IP address. Advanced QoS features are provided to minimize latency and give priority for voice and video packets. For a PoE model, up to 15.4W per port (802.3af) can be supported.

**Benefits**
- High Gigabit Port Density
- Up to 4 10/100/1000 Gigabit Uplink Ethernet Ports available in 1RU Chassis (iES4028FP, iES4028F)
- IEEE802.3af
- Power over Ethernet supported in all the access ports (iES4028FP, iES4024GP)
- IP Clustering
- Up to 36 switches can be managed in a single logical group using a single IP address.
- Advanced QoS features are provided to minimize latency and give priority for voice and video packets. And up to 15.4W per port (802.3af) can be supported.

**Physical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Ubigate iES4028FP</th>
<th>Ubigate iES4028F</th>
<th>Ubigate iES4024GP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td>24 10/100 BASE-T ports with PoE</td>
<td>24 10/100 BASE-T ports</td>
<td>22 10/100/1000 BASE-T ports with PoE</td>
</tr>
<tr>
<td>Switching Capacities</td>
<td>12.8 Gbps</td>
<td>12.8 Gbps</td>
<td>100 to 240 V, 50-60 Hz</td>
</tr>
<tr>
<td>Forwarding Rate</td>
<td>9.5 Mpps</td>
<td>20.7 Mpps</td>
<td>100 to 240 V, 50-60 Hz</td>
</tr>
<tr>
<td>Weight</td>
<td>4.13 kg</td>
<td>6.7 kg</td>
<td>4.33 kg</td>
</tr>
<tr>
<td>Dimension</td>
<td>48.9 x 44 x 9.92 cm</td>
<td>48.9 x 44 x 17.2 cm</td>
<td>48.9 x 44 x 32 cm</td>
</tr>
<tr>
<td>AC Input</td>
<td>100 to 240 V, 50-60 Hz</td>
<td>100 to 240 V, 50-60 Hz</td>
<td>100 to 240 V, 50-60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>225 W (System 45 W, PoE 180 W)</td>
<td>225 W (System 45 W, PoE 180 W)</td>
<td>225 W (System 45 W, PoE 180 W)</td>
</tr>
<tr>
<td>Power-over-Ethernet</td>
<td>- Maximum output power per port 15.4 W</td>
<td>- Maximum output power per port 15.4 W</td>
<td>- Maximum output power per port 15.4 W</td>
</tr>
<tr>
<td>Network Interface</td>
<td>- 10/100 BASE-T ports</td>
<td>- 10/100/1000 BASE-T ports</td>
<td>- 10/100/1000 BASE-T ports</td>
</tr>
<tr>
<td>VLAN</td>
<td>- 802.1Q Tag-based VLAN</td>
<td>- 802.1Q Port-based VLAN</td>
<td>- 802.1Q Port-based VLAN</td>
</tr>
<tr>
<td>IGMP Snooping</td>
<td>- V1, V2, V3</td>
<td>- V1, V2, V3</td>
<td>- V1, V2, V3</td>
</tr>
<tr>
<td>Link Aggregation</td>
<td>- 8 aggregation groups up to 8 ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MU</td>
<td>- Yes</td>
<td>- Yes</td>
<td>- Yes</td>
</tr>
<tr>
<td>Jumbo Frames</td>
<td>- 10K in gigabit ports</td>
<td>- 10K in gigabit ports</td>
<td>- 10K in gigabit ports</td>
</tr>
<tr>
<td>QoS</td>
<td>- Yes</td>
<td>- Yes</td>
<td>- Yes</td>
</tr>
<tr>
<td>Quality of Service</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- DiffServ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- COS</td>
<td>IEEE 802.1p, DSCP based COS</td>
<td>IEEE 802.1p, DSCP based COS</td>
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</tr>
</tbody>
</table>

**Software Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Control</td>
<td>- IEEE 802.3e for full-duplex mode</td>
</tr>
<tr>
<td></td>
<td>- Back pressure flow control half-duplex mode</td>
</tr>
<tr>
<td>Spanning Tree</td>
<td>- IEEE 802.1D STP</td>
</tr>
<tr>
<td></td>
<td>- IEEE 802.1w RSTP</td>
</tr>
<tr>
<td></td>
<td>- IEEE 802.1s MSTP</td>
</tr>
<tr>
<td></td>
<td>- Spanning Tree Fast Forwarding</td>
</tr>
<tr>
<td></td>
<td>- Auto Edge</td>
</tr>
<tr>
<td></td>
<td>- Loop Protection</td>
</tr>
<tr>
<td>MAC Addresses</td>
<td>- 8K MAC address entries</td>
</tr>
<tr>
<td>VLAN</td>
<td>- 802.1Q Tag-based VLAN</td>
</tr>
<tr>
<td></td>
<td>- 802.1Q Port-based VLAN</td>
</tr>
<tr>
<td></td>
<td>- 802.1P Protocol-based VLAN</td>
</tr>
<tr>
<td></td>
<td>- 256 VLAN entries out of 4K VLAN IDs</td>
</tr>
<tr>
<td></td>
<td>- GVRP</td>
</tr>
<tr>
<td></td>
<td>- Voice VLAN</td>
</tr>
<tr>
<td>IGMP Snooping</td>
<td>- V1, V2, V3</td>
</tr>
<tr>
<td></td>
<td>- Querier</td>
</tr>
<tr>
<td></td>
<td>- Immediate Leave</td>
</tr>
<tr>
<td></td>
<td>- Filtering and throttling</td>
</tr>
<tr>
<td>Link Aggregation</td>
<td>- IEEE 802.3ad with LACP</td>
</tr>
<tr>
<td></td>
<td>- 8 aggregation groups up to 8 ports</td>
</tr>
<tr>
<td>MU</td>
<td>- Yes</td>
</tr>
<tr>
<td>Jumbo Frames</td>
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<td>Quality of Service</td>
<td>- DiffServ</td>
</tr>
<tr>
<td></td>
<td>- COS</td>
</tr>
<tr>
<td></td>
<td>- Rate limiting (Per Port based)</td>
</tr>
</tbody>
</table>

**Security**

- Storm Control
- MAC Address Filtering
- Users/Password authentication
- Access control list (802.1x)
- 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
- Management Interface Access filtering: SNMP, WEB, Telnet
- DHCP Snooping
- IP Source Guard

**Management**

- Management method: Web-based, Telnet (4 sessions)
- Access Panel Interface: TFTP, Xmodem
- Dual Firmware Images
- Configuration file download: TFTP
- SNMP (v1/v2c/3)
- RMON (group 1, 2, 3, 9)
- 802.1X
- BOOTP : Client
- DHCP : Client, Relay (Option 82)
- Port mirroring (one-to-many)
- Event/Error Log : Local, Syslog, SMTP
- Remote Ping
- RMON
- NTP
- IEEE 802.1ab LLDP
- U-PB: Banner, Web authentication
- IP-Clustering (50 members)