

DATA
SECURITY
IT SERVICES
VOICE



DELIVERING SMART COMMUNICATIONS TO SMALL BUSINESSES

The Ericsson-LG iPECS SBG-1000 is a truly converged, NBN ready, communication platform tailored for small businesses integrating IP telephony, data networking, wireless, security and IT needs in a single unit. IP telephony and broadband internet services are easily and securely delivered over a single broadband IP line from the service provider and connected to the SBG-1000 for delivery to the end user. SBG-1000 is optimised to deliver small business with limited budgets and resources, the advanced communications capabilities of the larger enterprise, yielding smart business outcomes.

With the iPECS SBG-1000, small businesses can now reap the efficiency and productivity benefits of advanced communication services. The all in one communication solution eliminates the need and added expense of dealing with multiple suppliers, allowing the small business to focus on core business issues. SBG-1000 is the right answer to today's converged communication needs and, with its high performance NBN ready, IP based platform, is ready to integrate with IP applications and technologies.

You can select a configuration that best meets your business needs with the system supporting connections of up to 6 SIP trunks, 23 IP hard/soft phones or Wi-Fi handsets, 1 analogue phone or up to 6 DECT wireless devices.

VOICE

The SBG-1000 makes available an extensive set of telephony features. From basics (Hold, Transfer, etc.) to more advanced features (Incoming Call Distribution, SIP trunking, Twinned pairs etc.), you can easily access features and resources, often through a single button on your handset. SBG-1000 offers an array of devices so each user has the right communications tool for the job. Select from any of the LIP-8000 series IP desktop phones, DECT and WiFi wireless handset, PC and PDA soft phones, SIP clients for Android and Apple iOS smartphones, SLT or standard SIP terminals as appropriate for each user.

APPLICATIONS

Ericsson-LG delivers a range of applications designed to improve employee productivity and enhance the customer calling experience. iPECS IP-Attendant application simplifies call handling for the Attendant with all the features of a high-end attendant terminal, its ability to search local and corporate directories and display detailed caller information brings more productivity to the attendant's experience. In addition there are applications for the mobile worker such as the IP Communicator SIP based client for Android and Apple™ iOS smartphones, and the Phontage IP softphone for your laptop or PDA, enabling full access to the office phone system while working from home, travelling overseas or at a local restaurant with WiFi access.

DATA AND IT SERVICES

In addition to the advanced voice applications that the SBG-1000 delivers, it also provides an inbuilt file server responsible for the central management of data files so that computers on the same network can access the files. The file server allows users to share information over the network without having to physically transfer files and may be backed up on an external hard drive via the Smart Business Gateway. The SBG-1000 also serves as a print server that manages print requests and makes printer queue status information available to the various users on the network.

The Smart Business Gateway acts as the communication hub of the office delivering voice, applications, IT services and also delivers a secure wireless LAN enabling connectivity to wireless devices such as laptops, tablets, and smartphones. And all of this can be managed from both a local or remote location via the web based management tool.

VALUE PROPOSITION

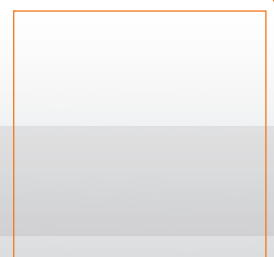
- All-in-one communications for voice, data, security and IT services
- Maximum cost effectiveness by combining voice and data networks
- Providing all applications in a single unit including Smartphone client, PC based Attendant console, softphone for PC and PDA, and IP Call recording
- IT services including Printer sharing and File sharing through USB port
- Greater mobility for anywhere, anytime connectivity using smart mobile devices
- Suitable for a wide variety of environments from standalone, branch to multi-site locations
- Simplified network management and administration from both local and remote locations
- NBN ready



iPECS SBG-1000 Highlights

SMART, SIMPLE, SECURE AND MOBILE

- All-in-one, voice, data, security and IT services for small businesses, branch offices and remote locations.
- Full-featured IP-PBX for enhanced IP telephony services combined with provider's multiple communication services.
- Value added applications and a variety of IP phones and soft phones for PCs or mobile devices give great effectiveness.
- Advanced WiFi for anywhere anytime connectivity including Laptops, Tablets, Mobile Devices.
- Comprehensive data networking with embedded routing protocols, enhanced security, Gigabit WAN, and Quality of Service.
- A robust set of embedded security methodologies protecting your networks using SPI firewall, IPSec VPN, authentication methods, access controls and rate limiting.
- Embedded file server & USB I/F to build shared storage network connecting an external USB storage device and built-in print server to share a printer over the same network.
- Simplified installation and configuration using embedded smart install wizard with pre-defined configurations.
- Local and remote management through an intuitive, Web-based GUI.
- SIP, PSTN or ISDN capable. Interfaces with most carriers.
- NBN ready.



IP Terminals



LIP-8002E

Entry level IP phone

- 2 Line LCD, Grey scale graphic display
- User programmable 4 feature keys
- LLDP-MED
- LIP-8002E (PoE support)



LIP-8012E

Everyday use standard IP phone

- 3 Line backlit LCD
- BLF information with triple color LED
- User programmable 12 feature keys
- High quality voice codecs
- Enhanced quality conference call
- LLDP-MED / 802.1x security support
- Open VPN support
- Gigabit support



LIP-9070 Premium Touch Screen IP Phone

- 7" TFT color display with Capacitive Touch
- Android OS
- WVGA resolution
- Video communications among iPECS video clients (UCS, 8050V, Phontage)
- 1.3M pixel CMOS camera (1280 x 1024)
- Memory: Main 512MB DDR2 / 4GB Storage
- Gigabit support
- Soft flexible buttons: 48 for SIP / 30 for iPECS protocol
- Media play, picture viewer
- Built-in software application
- External power pack required for operation



LIP-8024E

IP phone for professional call handling position

- 4 Line backlit LCD
- User programmable 24 feature keys
- BLF information with triple color LED
- More informative display with feature icons
- LLDP-MED / 802.1x security support
- Open VPN support
- Gigabit support



LIP-8040E

IP phone for executives

- Informative large 9 Line backlit LCD
- User programmable 10 feature keys with LCD labeling
- BLF information with triple color LED
- Professional headset integration via RJ11
- LLDP-MED / 802.1x security support
- Open VPN support
- Gigabit support

Wireless Terminals



LWS-WK (Wireless Keyset) DECT Deskphone

Fully featured system wireless IP phone

- Suitable for Office, Warehouse, Meeting areas, Retail Floors
- Key benefits:
 - Fully featured desktop phone
 - In house Mobility
 - No need for Telephony Cabling



WIT-400HE*

Fully featured system wireless IP phone

- Suitable for Office, Home office, field worker, warehouse manager
- Key benefits:
 - Mobility
 - Leverages WiFi infrastructure
 - iPECS protocol



GDC-450H

Ruggedized DECT system handset

- Ruggedized housing
- Key benefits:
 - In house mobility
 - Durable
 - Increased standby time



GDC-500H

Premium DECT system handset

- Robust design
- Key benefits:
 - Feature rich 2" full colour LCD
 - Speaker phone
 - Bluetooth headset support
 - Inhouse mobility

Applications



IP COMMUNICATOR – SMARTPHONE APP FOR ANDROID AND APPLE iOS

iPECS Communicator is a SIP client application that lets you access your office communications from your smartphone – giving you the flexibility to choose when, where and how you communicate.

- Can be linked to the user's desktop phone
- Make, Answer, Hold and Transfer, DND, Call Pick up, Call Hold, Call retrieve and MoH
- Select how the call will be placed: over the mobile network or as a SIP call
- Conference call
- SMS message
- Phone book management



iPECS UCS – SINGLE POINT OF COMMUNICATION

iPECS Unified Communications Solution (UCS) is a powerful multimedia collaboration and productivity tool, delivering UC functionality across your business.

- Presence
- Outlook synchronisation
- Video – 6 party video conferencing, calls to video desktop phones
- Click to dial
- Application sharing
- IM-secure instant messaging



PHONTAGE

- IP softphone for PC or PDA
- Two licenses included with SBG-1000
- Local/Remote Connection Mode
- 48 Flexible Buttons
- Two party video conferencing
- Smart Recent Call List



IP ATTENDANT

- PC based Attendant Console
- Improved call handling
- Link to local and corporate databases
- Replaces the requirement for an Attendant handset
- Can act as the centralised Attendant in networked environments



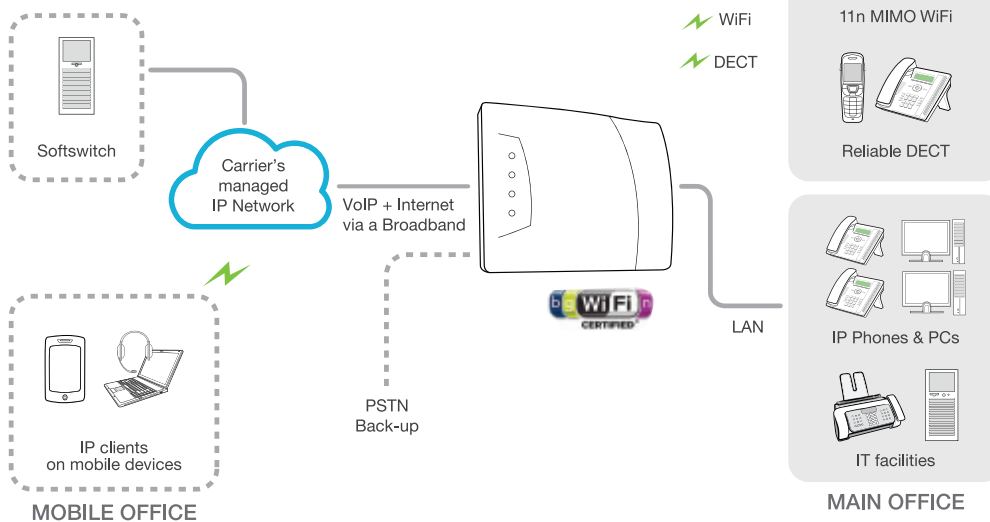
IP CALL RECORDING*

- Call Recording and monitoring server application
- Includes all stations managed by the SBG
- All call recording and On demand recording option
- Remote call recording, branch office, home office, road warriors etc

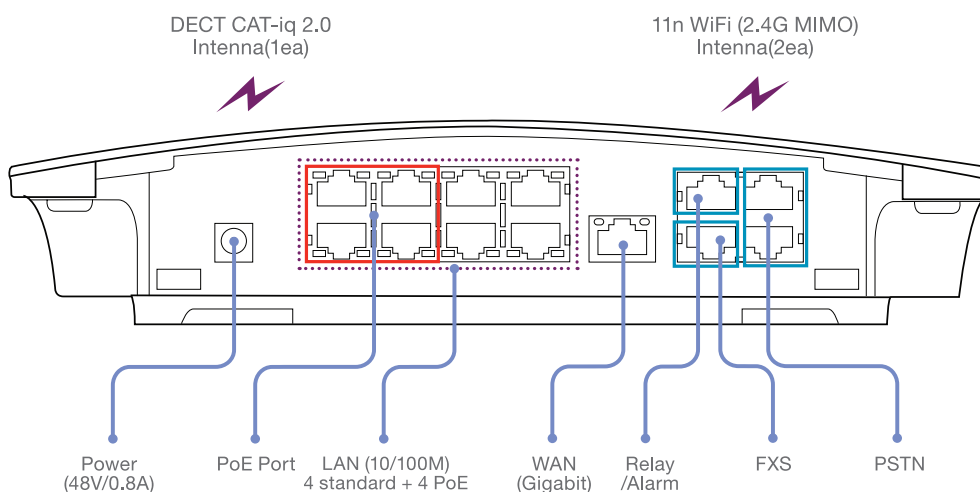
Configuration diagram and it's Service Applications

Platform for IP Telephony hosted service using SIP proxy of SBG-1000

Platform for IP managed service using IP-PBX of SBG-1000



Hardware Interfaces



Port Configurations

TYPE	CAPACITY
Trunk	Max 6 SIP trunks (w/o DECT in use) - 4 SIP trunks (with DECT in use) - PSTN back-up option (2CO, 4CO, 1BRI, 2BRI, 1CO + 1SLT)
Extension	Max 24 extensions - 23 IP Phones, 6 DECT phones* - 1 FXS port for SLT or FAX *Not all maximum capacities can be achieved simultaneously, and are dependant on available times slots and or hardware

Technical Specifications

HARDWARE INTERFACES

WAN

- 1-port 10/100/1000BASE-T
- EEE(Energy Efficient Ethernet) ready
- Auto-sensing, Auto-negotiation

LAN

- 8-port 10/100BASE-TX
- Auto-sensing, Auto-negotiation

Power over Ethernet

- Port 1 ~ Port 4
- 802.3af (Total PoE budget : 20 Watts)

Wireless LAN

- IEEE 802.11 b/g/n, 2.4GHz

DECT

- CAT-iq 2.0 support
- Frequency
1,880 ~ 1,900Mhz

FXS

- Loop distance : 1.5Km with AWG24
- Caller ID (CID) : FSK (ITU-T V.23 or Bell 202) or DTMF (ITU-T Q.23)
- Ring capacity / Frequency : 60Vrms / 25Hz

FXO

- Loop start CO, Caller Identification detection

USB

- Interface mode : USB V1.1, V2.0 Host mode

AC/DC POWER ADAPTER

- 100 ~ 240V AC @50/60Hz
- DC48V, 1A

PHYSICAL DIMENSIONS & WEIGHT

- Width : 278mm
- Depth : 233mm
- Height : 34mm
- Weight : 0.86Kg

FIREWALL

- General Security Policy, Access Control
- Web Site Restriction, Port Forwarding, Port Triggering
- NAT/NAPT, DMZ Host, Rule-based Packet Filtering
- Connection Information, Security Log

SECURITY

- Virtual Private Network (IPSec, PPTP, L2TP)
- Remote Administration Access Control
- Digital Certificate Management

QUALITY OF SERVICE

- General QoS Profile, Bandwidth Restriction
- Rule-based Traffic Priority & Traffic Shaping
- DSCP / 802.1p / Priority Queue Configuration
- Connection Utilization & Statistics

ROUTING

- Static Routing (Routing Table Management)
- Dynamic Routing (RIP v1/v2)
- NAT/NAPT, IGMP/Multicast

L2 SWITCHING

- 8-port 10/100 BASE-TX with 4 built-in PoE (Total PoE Budget : 20 Watts)
- STP/RSTP, VLAN, LLDP, LAN Bridge

CONFIGURATION

- Broadcast & Multicast Storm Control, Loop Detect

WIRELESS LAN

- 802.11 b/g/n (2.4 GHz)
- WEP, WPA, WPA2, WPA /WPA2 & Web Authentication
- 802.1x for Enterprise
- Multiple SSIDs (Virtual APs), MAC Filtering
- WPS (WiFi Protected Set-up) support
- Channel Width & Frequency Selection

IP-PBX / SIP

- Ericsson-LG advanced IP-PBX features
 - Call Transfer, Call Forward, Call Park, Call Pick-Up, Call Waiting, Camp-On, CO Queuing, Speed Dial, Station Groups, Mobile Extension, 3-Party Voice Conference, IP Fax Relay (T.38)
- SIP Trunk
 - 4 trunks with DECT, 6 trunks w/o DECT[#]
- Extension
 - 23 IP extensions[#]
 - 6 Ericsson-LG proprietary DECT terminals[#]
- Built-in SIP Proxy, Registrar, Failover to PSTN

ADMINISTRATION

- Web-based administration (HTTP/HTTPS)
- CLI (Telnet & Telnet over SSH)
- User management (role & permissions)
- Date & Time (NTP/TOD with daylight saving option)
- Smart Installation Wizard Services
- File Server (disk management, backup & restore)
- Printer Server (LPD, IPP)
- DHCP/DNS Server, Dynamic DNS, UPnP

DECT

- Built-in DECT Base Station, CAT-iq 2.0, Wideband codec
- 4 Simultaneous calls with 6 registered DECT terminals
- Ericsson-LG feature-rich DECT phones

IP SOFTPHONE, PHONTAGE*

- High Voice Quality GIPS Engine, Multi-Codec (G.711/G.729)
- IP Bridge, Outlook Scheduler Sync, DB Import/Export, Phone Book/Call Log management, Video Conferencing, Instant Messaging, LDAP Search, Audio Tuning Wizard

IP ENDPOINTS

- Full feature system IP phones from Entry to Executive
- IP Softphones and SIP client for Smart phones*
- Standard SIP phones (Need IOT)*

AUTO ATTENDANT / VOICE MAIL

- Well-organized & Easy to set-up Auto attendant & Voice Mail
- 4 simultaneous channels / 200-minute built-in storage (Expandable upto 480 minutes with a license key)
- On demand call recording, Voice Mail back-up & management[#]

IP CALL RECORDING*

- Voice packet encryption & call recording
- Agent Monitoring / Remote maintenance & automatic alarming
- Web based GUI, Statistics, User base access level management

MANAGEMENT

- Device Information & Map View, SNMP
- Network Connection Management, Monitoring & Diagnostics
- E-Mail Notification & Syslog Support, System Log

ENVIRONMENTAL SPECIFICATIONS

- Operation Temperature: 0-40°C
- Optimum Operation Temperature: 20-26°C
- Storage Temperature: 0-70°C
- Relative Humidity: 0-80%
RH non-condensing

*Keycode required

[#]Not all maximum capacities can be achieved simultaneously, and are dependant on available times slots and or hardware

Simple ^{Smart} Secure ^{Mobile}



Aria Technologies is the leading Australian distributor of some of the world's most popular and advanced communication solutions from Ericsson-LG. Aria partners with this leading Global manufacturer to provide full local engineering support and training to over 200 Channel Partners throughout Australia and the Pacific as well as stocking a full range of new systems and spare parts to meet market demands quickly.

Aria's philosophy is simple: limit distribution to "best in class," with the most appropriate fit to the proposed markets, and back those products with highly skilled, comprehensive sales and engineering support. Complement this with ongoing training for our Channel Partners to produce a solutions portfolio that continues to evolve, ensuring we meet the changing needs of the Australian market.



Ericsson-LG, a joint venture between Ericsson and LG-Electronics, is a global leader providing innovative technology and business communications solutions. Ericsson-LG solutions enable enterprises to boost revenue, reduce costs, enhance customer service, and increase productivity.

With more than 40 years of experience, Ericsson-LG recognizes and understands customer's concerns and requirements when selecting a communications solution. As a reliable business partner, Ericsson-LG offers customized solutions to small and large enterprises with a portfolio ranging from mobile, fixed network infrastructure, to voice and data solutions.

Voice

Multiple choice of terminals
DECT for reliable voice
VM & Applications
IP-PBX & SIP

Data

ROUTING
Enhanced QoS
WLAN for Voice & Data
Switching

Security

DMZ RULE-BASED
PACKET FILTERING
Firewall Access Control
VPN (IPSec, PPTP, L2TP)



IT Services

Print server
File server
Fax / EFTPOS
RELAY FOR DOOR OPEN/ALARM



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