Technical overview

Switch capacity

Up to 60 SIP trunks, RFC3261 1/2 PRI, 4/8/12 BRA trunks Up to 240 IP users 8 analogue a/b extensions (FXS) expandable to 240 Up to 240 digital system phones Ethernet port External relays x 2

IP system phones

Four-line backlit display Two Ethernet ports (mini-hub) DC jack for 12 Volt plug-top adaptor or PoE Headset socket (Executive version only)

DSS module (Executive version only) **Digital system phones**

2 - wire Executive keyset Four-line backlit display Headset socket DSS module

Voice over IP

Voice compression codecs: G.711, G.729 Quality of Service (QoS): 802.1p/q Echo and silence suppression Echo cancellation G.165/G.168

Security

Remote IP keysets: AES encryption

System management

Browser based local or remote programming LEDs for power and status Local or remote configuration backup Local or remote software upgrade Remote diagnostics

Physical interfaces

Trunks: ISDN PRI, TO RJ45 Ethernet RJ45 a/b extensions (FXS) RJ45 Digital keysets RJ45 External relays (x 2) RJ45 Optional audio adaptor for public address, at an FXS port, audio jack

110V / 220V / 240V ac (market dependent) Switch consumption: typical 24VA Plug-top adaptors for IP keysets PoE IEEE 802.3 af

Status LEDs

Power LAN Internet, SIP server Error warning Expansion card 1 Expansion card 2 Expansion card 3 Expansion rack (Slave), Exp

Physical dimensions

19" rack full width, one height unit, three quarter depth Rack and wall mountable

Voice Functionality

Alarm clock calls Analogue CLI Auto-discovery of IP stations Automated attendant Automated Management Server Automatic Call Distributor Browser based system programming Browser based user programming Call-back

Call Barring, up to 7 levels Call Forward Forward all Forward no answer Forward on busy

External or internal divert Reprogramme diversions remotely Call Hold

Missed Dialed Received

Call Lists

Callback Call Logging Call Pick-up/ Call Pick-off

Call Record Call Protection

Call Waiting (internal and external) CLIP, CLIR

Conference Call (Internal and External) CSTA

Do not disturb Doorphone (1 x a/b extn, 2 x relays) Email forwarding of voice mails and recorded calls Embedded web server

Enquiry Call External line ringing assignment Gmail contacts' synchronisation

DSS Module

Groups:

. Dedicated mailboxes Group diversion Group mailbox Missed call list per group Up to 10 groups Headset ready Hot desking Hunting groups iPhone app for Fixed Mobile Convergence (FMC) over 3G or WiFi (Android version available

P server (for IP extensions) IP system phones Outlook contacts synchronisation Least cost routing Meet-me conference rooms

MSN ringing assignment MSN restriction Multiple user devices (desk, soft, mobile) Music on hold

Networking of multiple systems Night service Paging via system phones Phone Book pool of 10,000 entries

import / export of directories Internal extension list Programmable keys 16 Re-dial (last 10 numbers)

Ringing Modes, 15 SIP client (up to 60 SIP trunks) SIP extension users Synchronisation with Outlook, UPnP (Universal Plug and Play) User PIN codes User profiles (Office/Home/

Roaming) Voicemail Voice recording Windows Soft phone

Public Switched ISDN Telephone Network **INTERNE** advantage Windows PC softphone Remote IP keyset V PC plugged IP Professional IP Executive Remote into IP keyset

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advantage 24000

The flexible communications solution for small business





VoIP & Unified Communications Solution for up to 240 users



Management Server



eircom advantage Executive set with DSS Module

The complete business solution for internet telephony

eircom advantage 24000 integrates all the voice communications needs of a small to medium business on a modular IP platform which can be configured for SIP trunks and ISDN lines, with integrated voicemail, automated attendant, Fixed Mobile Convergence (FMC) and integration with Microsoft Outlook to support click to dial from Outlook Contacts.



Configuration example showing an eircom advantage 24000 rack mount system with plug-in cards. The rack has 8 FXS analogue POTs as standard. This also has a plug-in card for 8 Upn digital system phones and two PRI cards.

Modular system

The basic 19" rack accommodates up to 240 IP users. 8 FXS analogue a/b interfaces are standard.

Up to 60 SIP trunks may be provisioned.

Plug-in cards

The basic unit has three universal plug-in slots into which any three of the following cards may be inserted.

ISDN PRI card (max 2 cards), each with 1 PRI

ISDN BRA card, with 4 x T0 basic accesses.

FXS Analogue POTs extensions' card, with 8 a/b.

Upn Digital extension card, with 8 system phone

interfaces.

Expansion racks

Additional expansion racks, each with three slots for plug-in cards, may be connected to the LAN, to increase the hardware capacity, as per following examples, per expansion rack added.

32 FXS analogue a/b POTs users

24 Upn digital system phones and 8 FXS

Up to 240 TDM extensions, between FXS and digital, can be connected using expansion racks as Slaves off the Master rack.

The Slaves are tightly coupled with the Master, giving presence information across all registered users.

Access to outside lines, either ISDN or SIP trunks, is exclusively via the Master



IP System phones

IP keysets may be connected locally on the LAN or remotely over

Remote IP extensions have full keyset functionality.

A PC may be plugged into an Ethernet mini-hub on the back of the IP system phone, allowing a single cable to the desk

There are two desktop IP system phones to choose from, Executive and Professional, each with a 4 line backlit display, with context sensitive navigation keys.

A 48 key Direct Station Select (DSS) module may be used in conjunction with the Executive key set.

The Executive set is also available as a PC softphone application, offering keyset functionality on any PC running Microsoft Windows. It's also available as an iPhone app. An Android app is in development.

Digital System phones

2-wire digital Executive keysets may be connected at the Upn digital

Email forwarding of voice mails and recorded calls

Individual and group voice mails or recorded calls may be forwarded automatically to your email address as a WAV attachment. You can alter your voicemail greeting remotely and change your call forward destination from your mobile phone.

Automated Attendant

One hundred separate interactive messages and menus can be played to callers depending on the number they dialed, the time of day, the language preference and the other options selected by the caller.

VoIP Networking of multiple systems

Up to one hundred advantage systems can be networked over Internet using two or more IP channels per system. A single numbering plan covers all of the networked systems. A common operator may be programmed to ring for incoming calls, across any systems.

Browser-based user portal

Download your system phone book from Gmail or Outlook. Set Call Forward and manage voice mails and general user parameters.



Dial out from your PC browser. Use the context-sensitive buttons for Hold, Transfer, Park and Conference.

Dial from your PC using CTI

The desktop PC can click to dial calls from your Microsoft Outlook Contacts list.

Fixed Mobile Convergence (FMC)

A user may have single number reachability and a single, centralised mailbox for the desk phone, home system phone, Apple iPhone and Windows soft phone.

An Apple iPhone running the eircom advantage iPhone app, may be registered to a user as an extension device on the wireless LAN or roaming on the public mobile wireless

The incoming caller ID of the originating caller is presented to such handsets. The user presents one CLI, irrespective of the device used to make the call. For a user with several registered devices (home, office, iPhone or Windows soft phone), the last device used is the active

directed. The user can change active devices by either pressing a key to push activity to another device or by pulling activity to their device by using it to make a call.

device, to which all incoming calls are

Feature/expansion cards & licences

SIP or ISDN trunks (to max 60 trunks in total) IP system phone users on the LAN/WAN (max

Digital or analogue a/b extensions (to max 240 users in total).

Multi-layer Automated Attendant, Voicemail boxes (users/groups: max 250 boxes).

Call Recording

Email forwarding of voice mails and recorded

Secure (AES) remote IP extensions over Internet

Music-on-Hold, downloadable 20 min wav/

CTI, dial from the desktop.

PC Soft phone.

iPhone system phone app.

Networking of multiple Opera systems. Meet-me conference rooms.

Auto discovery by IP system phones

Set-up programming is not required for IP system phones. Just plug into the LAN, which has a DHCP server, and the phones auto discover the system and are automatically assigned extension numbers.

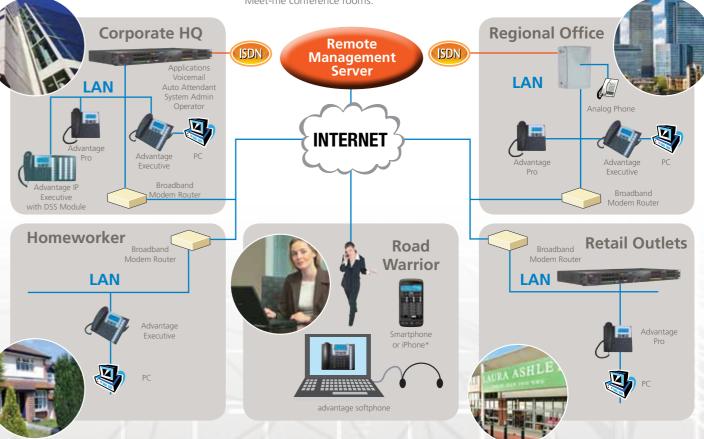
For home workers, a system phone that has auto discovered on a company LAN where the broadband modem/router supports Universal Plug n Play, can be plugged into any LAN with Internet access and it will automatically go on line and connect to its system as a remote extension

Call Recording

A user may record calls or portions of calls to their voice mailbox using a single key press to activate/deactivate the recording. Alternatively, the system may be programmed so that all calls to particular extensions are recorded. As soon as recorded calls are terminated, the recording is stored in the voice mailbox and a way file containing the recorded conversation is forwarded to the email address associated with that particular extension, for storage on their PC.

Meet Me Conference Rooms

Two seven-party dial-in audio conferences may be held at the same time and can be recorded and emailed to participants.



* Apple iPhone App currently supported. Android App available from early 2012