



CITICRusiness Telephon

Digital Business Telephone Systems

Your company is about to invest in a new telephone system. Perhaps the old one is overloaded, or you are moving to new or larger premises or maybe you wish to take advantage of new technologies such as ISDN or CLI. You want a system and a company you can depend on. With *aria*, you get the support of three professional companies - LG, the manufacturer, Atlas Gentech, the importer, distributor and service agent and your local professional authorised reseller.

Leading Suppliers of Digital Telephone Systems

LG is one of the world's largest companies with over US\$72 billion in annual sales and a staff of more than 126,000 in over 120 countries. Almost 2,000 staff are engaged in Research & Development for LGIC, the Information and Communications subsidiary of LG and it is the largest manufacturer of telephone systems in Korea. LGIC is committed to incorporating the latest technology into *aria* systems as well as developing new IP based systems for the future.

In New Zealand, *aria* is the largest selling telephone system. During the past 13 years, over 15,000 *aria* systems have been sold in New Zealand so it is safe to say that more companies use an *aria* telephone system than any other.



aria telephone systems are imported, distributed and serviced by Atlas Gentech (NZ) Limited, a New Zealand owned company that has been serving the communications needs of New Zealanders since 1972. Today, Atlas Gentech is one of the largest suppliers of communications products in New Zealand encompassing corded telephones, cordless telephones, DECT, headsets, answering machines, faxes, mini-PBX and keyphone systems, cellular and radio telephones, pagers and paging systems, announcers, voice recorders, audio conferencing systems and a broad array of specialty products.

Atlas Gentech services everything that is sells from its service centre based in Auckland. With over 40 staff, you can rely on both professional and efficient service from Atlas Gentech and it nationwide network of authorised resellers of *aria* telephone systems.

aria is Reliable

You can depend on an *aria* telephone system. Telecom New Zealand has tested and approved all the existing *aria* business systems. Each system has been New Zealand Telepermitted, complies with New Zealand Electrical Safety Standards and the *aria* system DECT cordless has also been approved by the New Zealand Ministry of Commerce.

All *aria* systems are guaranteed under a one year warranty from Atlas Gentech.

What aria Can Do For Your Business

The *aria* will improve your business communications and assist you in presenting a professional image to your customers and business associates. The *aria* can also save you money by giving you the choice of ISDN or analog CO lines, Least Cost Routing (LCR), SMDR call reporting, and numerous call handling options to save time and money.

What Businesses Need an aria Phone System?

The *aria* is the best communications solution for all sizes of businesses from retail shops to schools, hotels, large corporations and government departments. There is an *aria* system right for almost any type of company:

- Supermarkets and Retail Chains
- Hotels & Motels
- Accounting and Legal Firms
- Hospitals and Emergency Medical Centres
- Advertising Agencies
- > Travel and Real Estate Agents
- Banks and Insurance Companies
- Manufacturers
- Utility Companies
- Importers and Distributors
- Car Dealerships
- Recreational Facilities and Resorts.



aria has the Answers for Business Solutions

The *aria* 34e, 100 and 186 digital hybrid business telephone systems are designed to meet the telecommunications needs of organizations requiring from 4 up to 180 extensions and either PSTN or ISDN network connection. Their advanced features, together with the ability to integrate with existing analog equipment such as cordless telephones, faxes, modems and answering machines, make the *aria* the answer to your business telecommunications needs.

A complete and affordable business telephone system, *aria* has been designed to meet future technology requirements and represents an economical alternative to larger more expensive telephone systems.

aria



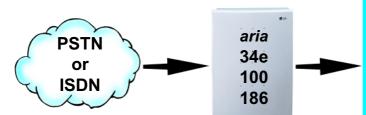


aria Innovative and Exciting Features

The **aria** digital business systems has many user friendly features and can interface with an array of user devices as well as be custom-tailored to meet the short and long term needs of the most demanding customer requirements.



- PSTN Connection
- Analog Bothway Direct Inward Dialling Connection
- > ISDN Connection Basic Rate or Primary Rate Access
- S-bus ISDN Connection ISDN to the Desktop
- ISDN Centrex Call Transferring Capabilities
- Automatic Attendant with up to 9 System Announcements
- Voice Messaging
- Least Cost Routing
- Customer Call Routing
- True Hybrid Operation (connect analog devices)
- Remote Maintanence & Programming
- Direct Inward System Access (DISA)
- Station Message Detail Recording (SMDR)
- Call Traffic Analysis
- Uniform Call Distribution (UCD)
- Asynchronous Serial Data Communications
- System DECT Cordless Technology
- Differential Ringing Tone on Key Telephones
- Dial by Name from Key Telephones
- Call Progress Tone Detection
- External Paging
- Music On Hold (Internal or External)
- QSIG the ability to intelligently connect two systems
- Modular Design Easy Expandability
- Stylish, Easy to Use Keyset Telephones
- Compatible with Call Accounting & Voice Mail Systems





aria Digital Key Telephones aria System DECT Cordless aria DSS Direct Station Console aria Digital Door Station/Intercom aria Digital Voice Interface Board **Single Line Telephones Cordless & DECT Cordless Telephones Fax Machines Answering Machines Announcers** Voice Recorders Modems Music On Hold Devices **External Paging** Video Conferencing **Battery Back-up Personal Computers**

Third Party Voice Mail Systems
Third Party Call Accounting Software

S-bus (ISDN to the Desktop)





Select Digital Keyset Telephones



JN3510 aria Select LKD-2NS 2-Button Non-Display Keyset

- Volume Control
- **On-Hook Dialling**
- Flash (Recall)
- Call Transfer
- Differential Ringing Tone Selection
- 2 Flexible keys assignable as Direct Station Select, Speed Dial or Line Status
- 10 Speed Dial Memories
- Message Waiting Lamp
- Headset Compatible



JN3511 aria Select LKD-8DS 8-Button Display Keyset

- 2-Line Adjustable LCD Display
- Full Hands-Free Speakerphone
- Volume Control
- Dialling from Alpha Numeric Speed **Dial Directory**
- Flash (Recall)
- Call Transfer
- Differential Ringing Tone Selection
- 8 Flexible keys assignable as Direct Station Select, Speed Dial or Line Status
- 10 Speed Dial Memories
- Message Waiting Lamp
- Headset Compatible



JN3512 aria Select LKD-30D 30-Button Display Keyset

- Multi-Colour Line Keys
- 2-Line Adjustable LCD Display
- Full Hands-Free Speakerphone
- Volume Control
- Dialling from Alpha Numeric Speed Dial Directory
- Flash (Recall)
- Call Transfer
- Differential Ringing Tone Selection
- 30 Flexible keys assignable as Direct Station Select, Speed Dial or Line Status
- 10 Speed Dial Memories
- Message Waiting Lamp
- Headset Compatible.



2B Interface for Digital Keyphone aria 34e 100 186 2B Interface for Single Line Telepho 30D 2B Interface For Analog Moder

JN3513 aria Select LKD-30LD 30-Button Large Display Keyset

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CHOTWO /LAGH

- Multi-Colour Line Keys
- 7-Line LARGE Adjustable LCD Display
- Full Hands-Free Speakerphone
- Volume Control
- Dialling from Alpha Numeric Speed Dial Directory
- Flash (Recall)
- Call Transfer
- Differential Ringing Tone Selection
- 30 Flexible keys assignable as Direct Station Select, Speed dial or Line Status
- 10 Speed Dial Memories
- Message Waiting Lamp
- Headset Compatible

JN3514 aria Select DSS Console

48 Programmable keys which can be assigned as Direct Line Selection, Direct Station Selection or Feature Keys.



JN3125 - Digital Door Station

May be used as a door phone or intercom and connected to ring on selected digital keyphone extensions.

aria Select Key Telephone Wall Mounting Brackets

JN3515 - Wall Bracket for Wall Mounting the 2-Button or 8-Button Display Keyset Telephones.

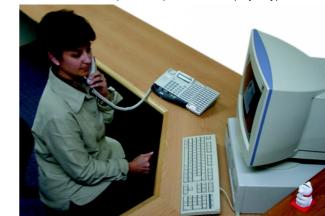
JN3516 - Wall Bracket for Wall Mounting the 30-Button Display and 30-Button Large Display Keyset Telephones.

2B Flexible Extension Configuration

The Optional 2B modules allow you to install a keyset or normal phone without expensive installation charges. Just plug in either the Analog or Digital 2B connector and connect your cordless, fax or modem or another keyset telephone.

JN3530 - 2B Analog Connector for the aria Select JN3512 (LKD-30D) 30-Button Display Keyphones.

JN3531 - 2B Digital Connector for the aria Select JN3512 (LKD-30D) 30-Button Display Keyphones.







Digitally Enhanced Cordless Telephone System

The Freedom to Move - Optional aria DECT System

The key to any successful business in today's highly competitive environment is customer service. People expect to be served professionally the first time and every time. *aria* DECT ensures that your staff do not miss any important calls even when they are on the move around the premises. *aria* DECT offers total freedom of movement without being out of reach of your customers. You can carry your extension in your pocket or clip it to your belt while still retaining keyphone functionality of your *aria* digital business system. *aria* DECT is GAP compliant and fully compatible with the *aria* 34e, 100 and 186 business systems.

Improve Your Company's Efficiency.

Mobility helps increase the efficiency and productivity of your company. Staff remain contactable at all times, ensuring important decisions are made without delay and staff are able to manage their day more effectively. Your business will also save money on the number of returned calls that your staff will no longer have to make. When your customers call, they will be in contact with your staff whenever they need them.

You Are Covered Wherever You Go.

Total coverage of your business premises can be achieved by strategic placement of **aria** base stations. Your staff can roam around your premises effortlessly without calls being dropped - thus creating your own private mobile network. And of course any internal calls will be made free of any toll charges.

Compact, Stylish and Portable Handset.

The **aria** DECT handset is light, compact, stylish and portable and is perfect for staff on the move. Improved response times and greater flexibility enhance your professional image with your customers.

JN3520 - aria 186 WTIBG DECT Interface Board (96 Handsets & 3 Base Stations)

JN3521 - aria 186 WTIUG DECT Expansion Board (3 Extra Base Stations)

JN3522 - aria 100 WTIBG DECT Interface Board (64 Handsets & 4 Base Stations)

JN3523 - aria 100 WTIUG DECT Expansion Board (4 Extra Base Stations)

JN3524 - aria 34e WTIBG DECT Interface Board (32 Handsets & 4 Base Stations)

JN3525 - aria 34e WTIUG DECT Expansion Board (4 Extra Base Stations)

JN3526 - aria GDC-320BG DECT Base Station (compatible with all 3 systems)

JN3527 - aria GDC-330HG DECT GAP Handset (compatible with all 3 systems)

JN3527C - aria GDC-330HG Leatherette Carry Case with Belt Clip

Key Telephone & System DECT Feature Comparison Chart						
Model	LKD-2NS		LKD-30D	LKD-30LD	GDC-330HG	
Product Code	JN-3510	JN-3511	JN-3512	JN-3513	JN-3527	
<u>Features</u>						
DECT Cordless Technology					1	
Full-Hands-Free Operation	1	1	/	/		
On-Hook Dialling	1	1	1	/	1	
Speaker Volume Control	1	/	/	1	/	
Dial By Name		/	/	1		
LCD Display		2-Line	2-Line	7-Line	2-Line	
View Number Dialled		1	/	1	/	
Call Duration Timer		1	/	/		
Intercom with Caller ID		✓	✓	1	1	
ISDN Caller ID		/	/	1	/	
Telephone Speed Dials	20	20	20	20	20	
Soft Programmble Button	2	8	30	30	1	
Paging	1	1	1	1	✓	
Call Transfer	1	1	1	1	✓	
Hold Button	1	1	1	1	1	
Last Number Redial Button	1	1	1	1	1	
Save Dialled Number	1	1	/	/	1	
Executive/Secretary Transfer	1	✓	✓	1	1	
Conference Call		/	/	1	/	
Call Waiting(Camp on)	/	/	/	/	/	
Callback	/	1	/	/	/	
Message Waiting Lamp	/	1	1	/	/	
Call Foward	1	/	/	1	/	
Do Not Disturb	/	/	/	1	/	
Access Code	/	1	/	/	/	
Ring Volume Control	/	1	/	1	/	
Headset Compatible	/	1	1	1	2.5mm Port	
Wall Mountable	/	1	1	1		
2B Extension Option			/			







Major Digital Business System Features

ISDN*

ISDN (Integrated Services Digital Network) has revolutionised the capabilities of your telephone system as it has much greater capacity and speed for transmitting data, voice, video and image. As a digital service, ISDN offers faster and more reliable transmission with near instant connection and fewer errors. ISDN features include Direct Inward Dialling, Video Conferencing, Group 4 Fax and Calling Line Identifications (CLI).

BASIC RATE ACCESS - BRA (2B+D) ISDN*

Enhances your telephone service with clear, digital calls, and it allows you to easily upgrade your existing analog service while keeping your existing telephone number and send data, video and image - economically and at high speed.

PRIMATY RATE ACCESS - PRA (30B+D) ISDN*

Primary rate access allows voice, data, image and video transfer services. PRA is intended for larger customers with frequent data transfer and multi-line voice applications. It operates at 2mbps and each board consist of 30 "B" channels of 64kbps. Up to 60 PRA channels can be connected to the aria digital business sytems.

S-bus ISDN EXTENSION*

This feature allows ISDN to the Desktop along with other features such as Calling Line Identification, Multi Subscriber Numbering and Bothway DDI where available. It enables the connection of video conferencing equipment , high speed data transmission and Group 4 fax connection.

CALLER LINE IDENTIFICATION*

CLI lets you see who's calling you on a display keystation before you answer the call. This service is available on ISDN lines.

VIDEO CONFERENCING*

Save money and time on costly national and international trips with Video Conferencing. By using S-bus ISDN Technology, you can set-up a video conferencing system enabling you to hold successful multi-site meetings at the cost of a telephone call.

LEAST COST ROUTING

Competition between the telecommunication network providers means that the cost of a call can vary depending on the distance, country, time of day, fixed or mobile phone, even promotional offers. Your aria digital business system can be programmed to choose the most cost effective carrier. Least cost routing allows your business system to make the dialling decisions, saving you time and money.

DECT MOBILITY

DECT (Digitally Enhanced Cordless Telephone) allows you to answer calls from anywhere in the office. aria GAP compliant DECT handsets provides digital cordless extensions with access to system features for personnel working away from their desk, in the warehouse, in the workshop, showroom, etc. Mobility helps eliminate lost calls and provides greater flexibility to your business organisation.

DIRECT INWARD DIALLING*

DID (Direct Inward Dialling) allows callers to directly access the person they wish to speak to, thus freeing the operator to handle customer calls more effectively.

UNIFORM CALL DISTRIBUTION (UCD)

Call centre and UCD technology is driving huge gains in productivity, customer service and revenues across all industries. The clear UCD functions of the aria range allows you to introduce call handling features at a fraction of the cost of larger, more expensive PBX systems. The aria range employs queuing technology to allow you to handle more incoming calls than there is staff available. Call are queued as determined by you across nominated personnel, minimising wait time for callers and spreading the load evenly within the organisation, Efficiency is increased by reducing call answer rings in busy environments such as sales departments, customer service organisations or any areas with a large volume of incoming calls.

AUTOMATED ATTENDANT/CALL ROUTING*

Each call is valuable, Many calls are lost due to inefficient call handling, costing your organisation money. The aria business system solves this problem with the Automated Attendant feature. The system can be programmed to provide callers with customised greetings, inviting them to use single digit selection to direct calls to a specific extensions, departments, group or wait to be connected to an operator. The Automated Attendant ensures that all your calls are answered within your pre-determined time.

ENHANCED DIGITAL VOICE INTERFACE BOARD*

This is the voice of the system. The Enhanced Digital Voice Interface Board provides messaging for the Auto Attendant, Call Queuing, Call Distribution for busy operators. It gives both internal user greeting and voice messaging. By using resources more effectively and no longer missing important messages, productivity is increased and your image to callers is also improved.

REMOTE MAINTENANCE AND PROGRAMMING*

Technical visits are expensive. The aria has the tools to manage and maintain the system remotely, quickly and efficiently. Help is now only a telephone call away.

CALL ACCOUNTING & VOICE MAIL INTEGRATION*

Call Accounting and Voice Mail are important tools for any modern business. aria digital business systems seamlessly integrate with any compatible PC based call accounting or voice mail systems.

HOSPITAILITY SOFTWARE*

aria hospitality software is designed to meet the needs of the accommodation industry. It can be used as a stand alone system or be integrated with other hospitality software to cover the needs of small to medium hotels, motels, guest houses. lodges and even nursing homes, retirement villages, emergency accident centres, hospitals and more.

COST CONTROL*

Control over your organisation's telephone system expenditure is essential for effective business management. With the built-in call logging facility you can easily print out a total list of actual costs, by extension or department.. It also allows you to control which extensions can have overseas, national or even local access further minimising any excessive expenditure.



Digital Business System Features

Accounts Code - Forced Add-on Conference

Alarm Ring

Alarm Signal (External Equipment) *

All Call Paging

Alphanumeric Display # Analog Device Operation * Aria Select Keyphone Range Aria DECT Cordless System Attendant Call Queuing

Attendant Disable Outgoing Access

Attendant Intrusion Attendant Override Attendant Position Attendant Set Clock **Authorisation Code** Automated Attendant *

Automatic Call Number Redial * Automatic Call Release 3

Automatic Hold **Automatic Privacy**

Auto Uniform Call Distribution (UCD)

Background Music*

Barge In

Battery Back-up Memory Battery Back-up System '

Brokers Call Busy Lamp Field

Call Announce - Handsfree Answerback

Call Announce Privacy

Call Back Call Barring Call Cost Display # * Call Divert

Call Duration Timer #

Call Forward (All/Busy/No Answer)

Call Forward (Follow Me) Call Forward (Unconditional)

Call Metering Call Park Call Pick-up

Call Pick-up (Group Direct) Call Pick-up (Priority) Call Timer #

Call Transfer Screened Call Transfer Unscreened Call Waiting (Camp On)

Calling Line Identification (ISDN) # *

Circular Hunt Group Class of Service CO/PBX Digit Restriction CO Message Wait (ISDN) CO Line Name Display # Conference (Supervised or Not) Confidence Tone (Dialling Tone) Connected Line Identification Consecutive Speed Dial Cordless Technology (DECT) Custom Call Routing

Custom Display Messages #

Data Line Security Data Programming Date #

Day/Night COS

DECT (GAP Compatible) *

Delay Line Ring Dial Memo Dial by Name # Dial Pulse Sending Digit Insertion

Digitised Voice Unit (DVIB/EDVU) *

Direct Station Selection Direct Inward Dialling (DID) * Directed Call Pick-up Display Security - Speed Dial Display of Forwarded Call # Distinctive Ringing Do Not Disturb (DND) Override Do Not Disturb (DND)

Door Phone/Intercom *

Direct Station Select (DSS) Console * DTMF Sending (Switching) **DVU Forward No Answer** Elapsed Call Timer # Electronic Volume Control **Emergency Service Call** Exchange Line Queuing Exchange Line Name Display #

Exchange Line Groups Executive/Secretary Transfer External All Call Paging* External Tone Ringer Facility * Fax Machine Capability

Feature Access Keys User Programmable

Flexible Call Charging * Flexible Card Slot Locations Flexible CO Line Ringing Flexible DID Table

Flexible Exchange Line Ring Assignment

Flexible Line Kevs

Flexible Station Numbering Plan

Follow Me Forward

Forwarded Message Display # General Purpose Relays

Group Listening Handsfree Answerback Handsfree Operation Headset Compatible Hold Exclusive Hold Free Transfer Hold System **Howler Tone**

Hunt Group (Circular, Terminal, UCD) Idle Line Selection (Hot/Warm Lines)

Intercom Call Intercom Groups Internal All Call Paging Internal Call on Hold Internal Zone Paging

ISDN (Integrated Services Digital Network)

Keystation Menu Display Last Number Redial Least Cost Routing

Line Lockout

Loud Bell Control Meet Me Page Answer

Memo Dial

Message Waiting Indication Messaging Waiting/Reminder Tone

Meter Pulse Detection *

Monitor Mode

Multi-Colour LEDs on Key Telephones

Multi-line Conference Music on Hold *

Mute Night Bell *

Non-blocking on Intercom Off Net Call Forward Off Hook Signalling On-Hook Dialling

Paging (All Call, Zone, External)

PBX Centrex - Flash * PBX Centrex - Call Transfer

Pause (Timer)

PC Connection/Serial Printer Power Fail Transfer 3 Primary Rate ISDN (PRI) Pre-Selected Messages Preferred Line Answer Preset Call Forward

Privacy Private Line

Programmable Key Inquiry # **QSIG System Connection**

Recall

Remote Programming/Pc Admin *

Save CLIP

Save Number Redial Secondary Answering

Seized Trunk Number Display #

Serial Calling

Single Line Telephones*

Siteline* SMDR*

S0 Business Interface * + Station Outgoing Call Lockout

Station Speed Dial

Step Call

Stop Watch Timer * System Speed Dial

Temporary Class of Service Change

Tenant Service/Tenanting Terminal Hunt Group

Time # Toll Override Toll Barring Traffic Analysis * Transferring

UCD (Uniform Call Distribution) Group

Universal Slots

Universal Night Answer * Video Conferencing * + Voice Mail Integration * Wake-up Ring

Walking Class of Service

Warning Tone







Denotes optional features or extra hardware may be required.

Denotes requires Display Keystaton.

+ Denotes not available on 34e.

Some features are not available on all systems.



System Specifications & Capacity

Sı	stem S	Spe	cifica	ations
				

Maximum Station Ports (Digital/Analog) Maximum CO Line Ports Maximum User Ports **SLT Devices**

Station Speed Dial (24 digits) System Speed Dial (24 digits)

SMDR Record

DSS/DLS Consoles

Last/Save Number Redial/Memo Dial

Conference Call - 3 Party

- 4 Party - 5 Party

Attendant Positions Intercom Links Paging - All Calls

- External (approved device)

- Internal

Music Source Input (External MOH)

Internal Music On Hold

External Control Contacts (approved device)

External Page Replay/Loud Bell Control

Alarm/Door Bell Input

Power Fail Transfer Circuits - External

- Internal

RS-232C

Direct Inward System Access

CO Line Group Intercom Group Hunt Group/UCD **DTMF** Receivers

DVU/EDVU/DVIB DECT System -

Maximum Base Stations

with WTIU Expansion Board

- Channels/Cells

- Available Channel in System with WTIU Expansion Board

- Registrable Maximum Handsets

- Maximum Simultaneous DECT Calls with WTIU Expansion Board

KSU Cabinet Dimensions- Height

- Width

aria 34e aria 100

72 20 44 34 100 22 48 3 per station 2 per station

20 (total 200) 20 (total 500) 200 200

100 (200 with MEMU) 48 digits 48 digits Unlimited Unlimited Not Available Not Available Not Available

1/system5/group 1/system5/group Non-blocking Non-blocking 1 zone/system 1 zone/system 1 zone/system 1 zone/system 5 zone/system 15 zone/system 1/MBU 2/MISB 1/MBU 1/system 2/MBU 4/MISB (flexible)

1/MBU 1/MBU 6/PFTU (max 3) 6 line/system (optional) 2/PFTU

1/SIU up to 2 SIU All CO Lines 9 Groups

5 Groups 8 (at 32 stations/groups) 2/MBU and option on

SLIB4/SLIB6/4LCOB

2/system 8 5 16 8-32 (by step 8)

16

465mm 404mm 169mm aria 186

186 96 186

132 (24v)/72 (48v) 4 per station 20 (total 200)

800

500 (2000 with MEMU) 900 (10000 with MEMU)

48 digits Unlimited 26 13

1/system5/group Non-blocking 1 zone/system 1 zone/system 20 zone/system 2/MISB 1/system

6/MISB (flexible) 6 (flexible) 6 line/cabinet

Not Available 1/MPB, 1 MODU All CO Lines 48 Groups 10 Groups 30 groups

10/MISB, 12 DTRU (optional)

1/system 3/system 3 8 6 5 5 16 16 32 32

2/SIU, 1/MPB (optional)

15 (at 30 stations/groups)

1 LCOB, 1 SLIB (optional)

All CO Lines

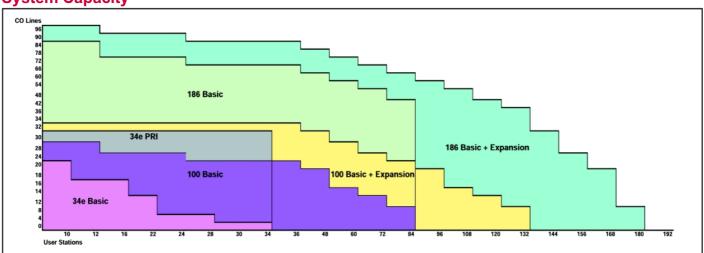
24 Groups

5 Groups

8-64 (by step 8) 8-96 (by step 8)

15 16 32 30 420mm 370mm 401mm 606mm 187mm 415mm

System Capacity



Imported, Distributed & Serviced By:

atlas gentech

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Private Bag 14927, Panmure Service Telephone: (09) 574-2727 Fax: (09) 574-2722 Consumer Helpline (Toll Call): 0900-500-25

Authorised aria Reseller