Product Bulletin

Title: **Announcing the New Mitel SIP-DECT Single Cell Solution!**

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Summary

Mitel is pleased to announce a new wireless SIP-DECT solution - the Mitel SIP-DECT Single cell solution. This newest Desktop mobility solution offers unprecedented convenience and limited mobility for IP Phone users in a VoIP network. The Mitel RFP 12 IP Single Base Station and the Mitel 112 DECT Phone provide MiVoice Business and MiVoice Office 250 users with SIP call processing functionality on a sleek, cordless handset with a vibrant color display.

Key Features include:
- Single cell DECT mobility solution for MiVoice Business and MiVoice Office 250 communications platforms
- Supports up to 20 x phones from a single base station
- Sleek, ergonomically designed DECT Handset with color, illuminated display, and auto dimming
- Highly secure encrypted wideband voice technology with 5 simultaneous calls
- Add up to 3 IP Repeaters for additional coverage
- Multiple languages support
- Teleworker support
.... and many more features and capabilities!

General Availability is January 18, 2016.

Please read this bulletin for more information on the new Mitel SIP-DECT Single Cell solution for MiVoice Business and MiVoice Office 250.

Target Market / Opportunity / Positioning

Product Overview
Mitel's SIP-DECT Single Cell solution provides on-site mobility for MiVoice Business and MiVoice Office 250 installations where users must be contactable wherever they are within the office. The Mitel SIP-DECT Single Cell solution is comprised of the Mitel RFP 12 IP Single DECT base station, up to 20 x Mitel 112 DECT Phones plus up to 3 x Mitel RFP 12 IP Repeaters, providing a fully integrated mobility solution for small offices or for specific areas within larger offices or buildings.

It gives users the freedom and mobility to move away from their desk within their office or adjacent offices. Working with MiVoice Business and MiVoice Office 250 it provides an easily implemented mobility solution for small and medium business and enterprise markets.

The solution has a broad appeal across a number of vertical markets. Customers who require a low cost cordless handset solution will appreciate the simplicity and the range provided by the DECT technology for personal area mobility. In the hospitality market, hotel guests will appreciate the convenience of additional cordless phone extensions in their rooms, while IT staff will appreciate the cost savings of servicing an entire room or suite of rooms with a single LAN drop.

The 112 DECT Phone provides SIP call processing features on a cordless handset. The RFP 12 Single DECT base station connects to the LAN and provides SIP Gateway functionality. It supports up to 20 x 112 DECT Phones that act as SIP extensions. MiVoice Business and MiVoice Office 250 extend SIP call processing features to the 112 DECT Handset. Users can activate phone features through Feature Access Codes.

The 112 DECT Phone has a range of up to 50 meters (150 feet) (for indoor use) and up to 300 meters (900 feet) (for outdoor use) from the RFP 12 IP Single DECT Base Station. Using an RFP 12 IP Repeater to extend this range even further makes the SIP-DECT Single Cell solution the ideal mobility solution in hospitality, education, health care and retail as well as small and medium business (SMB) and enterprise markets.

Market Opportunity / Target Markets
The SIP-DECT Single Cell solution has a broad appeal across a number of vertical markets. Customers who require a low cost cordless handset solution will appreciate the simplicity and the range provided by the IP DECT technology for personal area mobility. The RFP 12 IP Single DECT Base Station coupled with the 112 DECT Phone is ideal for users in retail markets, such as stores or car dealerships, health care locations, such as clinics, dental or medical offices and small businesses, who only require a small number of cordless handsets to augment their VoIP solution.

By leveraging the Dynamic Extension capability of the MiVoice Business platform or the Dynamic Extension Express feature on the MiVoice Office 250, customers are able to "twin" a 112 DECT Phone with a 5300 Series IP Phone, providing an integrated user experience at the desktop for those who want the value of our current cordless handset but need to be able to access more telephony features from the cordless handset such as caller ID, call transfer, etc. while away from their desk.

The SIP-DECT Single Cell solution is also an ideal teleworker solution. For users who want to enjoy the mobility of working where it is convenient, the 112 DECT Phone is perfect for mobile teleworkers.

Target markets for the SIP-DECT Single Cell Solution include:
Hospitality

- High-end – cordless guest room extensions
- Low-end – front desk handset

Small Area Retail

- Mobile handsets provide 1-touch speed dial for retail sales staff
- Car dealership sales associates – mobile handset twinned with desk phone; can use repeaters to extend range to cover parking lot if required

Education

- Mobile handsets with 1-touch speed dial for teachers / administrative staff, yard duty staff

SMB / Enterprise

- Administration / receptionist – access to telephony features (e.g. call transfer) while away from desk (e.g. at fax machine / photocopier)
- Limited area mobile workers
- Same market as a cordless phone, but for those who want access to telephony features while away from desk (i.e. caller ID, call transfer, etc)

SIP-DECT Single Cell Solution Value Proposition

SIP DECT – Voice-centric and Simpler
SIP DECT is ideally suited to businesses seeking a voice and messaging capable on-premise wireless solution for secure, quality voice performance that is lower cost, more robust to interference and easier to manage when compared to Wi-Fi or cellular solutions. SIP-DECT involves deploying a dedicated wireless infrastructure that may not necessarily be capable of supporting wireless data access.

Improved productivity and business efficiency
The productivity benefit of mobile communications is well understood. Extending mobile on-premise communications through integration with other value add applications or business process systems; delivering the relevant information to the responsible individual; delivering work flow information in real-time; the ability to deliver and respond to emergency situations in a hospital, manufacturing plant, retail or educational institution drives significant productivity benefits.

Improved customer service
In the retail segment, staff becomes reachable wherever they are and the use of objectionable overhead paging can be eliminated. In hospitality, front desk staff or the concierge can respond to

guests' needs more expediently. The customer or guest has a better chance of reaching the right person; the establishment becoming more responsive; all resulting in a more satisfying experience.

Improved cost control
Workers are becoming increasingly mobile in the workplace; however, the option of widespread cellular phone usage can prove very costly. Deployment of an SIP-DECT voice-capable solution in conjunction with the MiV Business or MiV Office 250 enables the enterprise or small business to control and manage their mobile communication costs on the premises. Once the infrastructure is deployed, internal and external mobile calling is essentially free, with the added benefit that usage is subject to the same class of service privileges as the wired communication system.

Improved safety and security
Security of staff in traditional high risk environments as well as in health care, education and retail establishments is an increasing concern. The 112 DECT Phone integrated with either MiVoice Business or MiVoice Office 250 gives enterprise and small business users the ability to respond quickly to situations involving a security breach or an emergency, allowing them to manage the situation in real-time to ensure the safety of staff, community and property.

Product Overview / Features & Benefits / Description

Mitel SIP-DECT - Single Cell Overview
The Mitel RFP 12 IP DECT is a single cell SIP-DECT base station mobility solution for MiVoice Business and MiVoice Office 250, providing mobility for users within specific areas of any office or building. It gives users the freedom and mobility to move away from their desk within their office or adjacent offices. It provides an easily implemented mobility solution for small and medium business and enterprise markets, as well as Hospitality deployments. It also allows for the easy expansion of a system without the need for new cabling, with a maximum of 20 x Mitel 112 DECT Handsets to be supported on a single base station.

Unlike the 5610 DECT Stand, the SIP-DECT Single Cell RFP 12 base station is not tied to any specific Mitel 5300 IP Phone. It is a compact, stand-alone base station, which can be deployed anywhere...on the Desktop or mounted on the wall.

The new SIP-DECT Single Cell Solution is comprised of the Mitel RFP 12 IP Single (DECT base station), the Mitel 112 DECT Phone and the Mitel RFP 12 IP Repeater. The base station for the solution is housed in a small enclosure that can be mounted on the wall or placed on or under a desk. The solution features include:

- Support for up to 20 x Mitel 112 DECT Phones from a single base station, enabling more users to be added without additional cabling for desktop phones
- Modern, ergonomically designed Mitel 112 DECT Phone with illuminated color display
- Support for 5 x simultaneous calls (Wideband or Narrowband)
- Highly secure encrypted wideband voice technology
- Supported Codecs: G.722, G.711 or G.729 (max. 4)
- Addition of up to 3 x Mitel RFP 12 IP Repeaters, to increase DECT coverage for mobility
- Support for existing custom Hospitality feature set (Call log suppression, audible tones & lighted screens suppression during updates, remote phone book import, phone book modification prevention by users, etc.)
- Single cell DECT mobility solution for MiVoice Business and MiVoice Office 250 communications platforms

Hospitality Features
The following custom hospitality features are supported on the SIP-DECT Single solution, when the

"Hotel Mode" is selected during configuration:

- Hotel/Motel Room Personal Wake Up Call – Set
- Hotel/Motel Room Personal Wake Up Call – Cancel
- Hotel/Motel Room Wake-up Call From Guest Extension – Set
- Hotel/Motel Room Wake-up Call From Guest Extension – Cancel
- Hotel/Motel Room Remote Wake Up Call – Set
- Hotel/Motel Room Remote Wake Up Call – Cancel
- Hotel/Motel Room Status
- Suppress call logs
- No sound or lights during reboot
- Lock phone book
- Settings lock
- Audio settings lock
- PIN protected
- Contacts removed

The Mitel SIP-DECT Single solution – adding mobility in the office, simply and effectively!

Mitel 112 DECT Phone Overview

The Mitel 112 DECT Phone is a full-featured SIP cordless handset that is supported on the RFP 12 IP Single. It is a modern, ergonomically designed sleek handset with an illuminated vibrant color display. Features include:

- Color, illuminated 1.44" display (128 x 128) with auto dimming
- Wideband audio support (G.722) handset, headset and speakerphone
- 21 keys including dial pad, menu, navigation, softkeys, answer and end keys
- Two-line capability (e.g. answer call on one line, place that call on hold and initiate call on second line)
- Supports Dynamic Extension on MiVoice Business Platform and Dynamic Extension Express on MiVoice Office 250 platform for twinning capability
- Menu Key provides graphical options for Contacts, Settings, Messages, Call Logs, Connectivity and Audio features
- Configurable high-visibility LEDs for call indication, message waiting, missed calls and battery warning

- Settings allow users to adjust audio preferences, ringer melodies, telephony functions, call forwarding options, and to access system and network settings
- Message Key provides access to voice mail box and displays softkey prompts for voice mail functions
- Call Logs displays up to 20 call entries (all, missed, incoming, outgoing) with a date and time stamp
- Contacts List: Stores and manages personal contacts and allows speed dials for contacts to be created or groups of contacts to be created
- Speakerphone for handsfree capability, with adjustable volumes
- Five polyphonic ring tones
- Distinctive ringing based on Calling Line ID
- Display features time and date, user name, connection status, battery status, call log and options softkeys
- Multiple languages support: English, French, Spanish, German, Italian, Dutch, Portuguese, Danish, Swedish, Turkish, Polish
- Supports Conferencing, Call Transfer, Call Waiting, Call Forwarding, Hold and many more SIP telephony features from the MiVoice Business and MiVoice Office communications solutions
- Hotel Mode provides call logs suppression, phone book lock, Settings lock, and suppresses tones and lights on Handset during upgrades or reboots
- Supports operating time of 7 hours talk / 75 hours standby
- Ringer and speaker volume controls including mute
- Low battery and low coverage audible warnings
- Standard headset support (3.5 mm jack)
- Message waiting indicator (missed calls, voice mail)
- Hearing Aid Compatible (HAC) handset
- Firmware download over the air
- Desktop charger included

Mitel RFP 12 IP Single Overview

The Mitel RFP 12 IP Single acts as a DECT base station for the Mitel 112 DECT Phone. It provides IP DECT to SIP gateway functionality. It is a 6-slot base station designed for indoor deployment and provides superior HD-audio coverage in a given limited area.
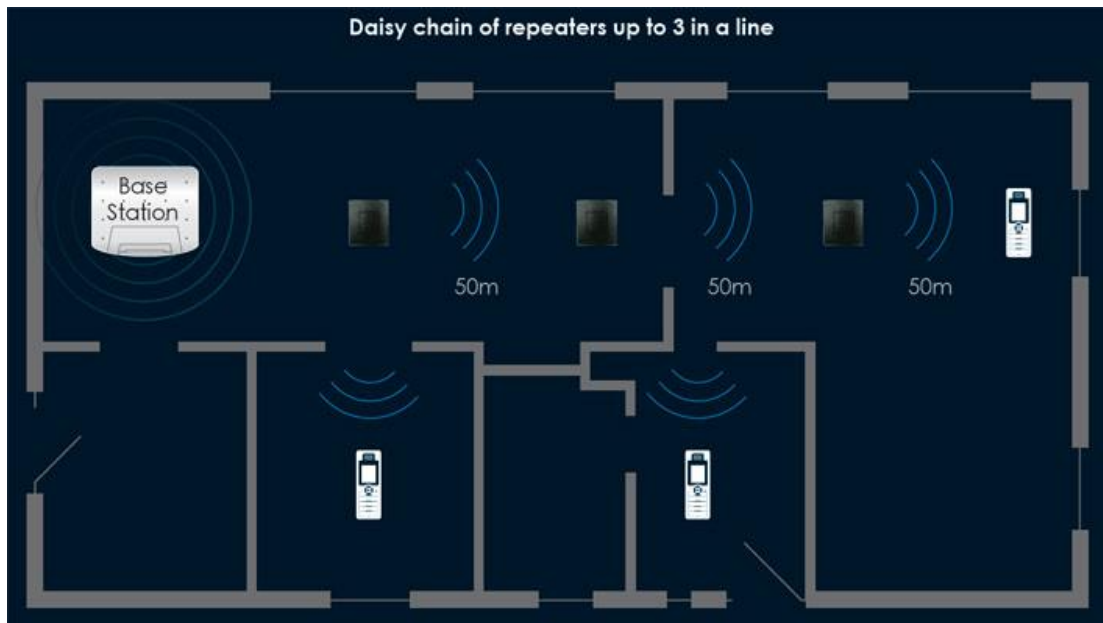
- Supports up to 20 x Mitel 112 DECT Phones
- Five simultaneous calls, narrowband G.711 and wideband G.722, and four compressed G.729
- Supports up to three Mitel RFP 12 IP Repeaters
- 10BASE-T RJ45 Ethernet port
- Wall Mountable
- Comes in 2 DECT variants: NA or EU DECT
- Configurable via web based configuration interface

Mitel RFP 12 IP Repeater Overview

The Mitel RFP 12 IP Repeater extends the range of the 112 DECT Handset from the RFP 12 IP Single base station, with a maximum of 3 RFP 12 IP Repeaters being connected in a daisy-chain configuration. The RFP 12 IP Repeater can also be utilized wherever there is a need to increase limited coverage or improve reception in remote areas. Up to 3 IP Repeaters can be deployed in a daisy-chain configuration to extend the range of the 112 DECT Phone whenever the need arises. Features include:

- Maximum of 3 IP Repeaters connected to the RFP 12 IP Single
- Supports handling of 5 active narrowband calls or 2 active wideband calls simultaneously
- Wideband audio support
- DECT encryption
- Automatic registration
- Supports automatic handover of calls between Repeaters
- Maximum 3 repeaters in daisy chain
- Frequency bands coverage: EU/AU/NZ, US/CA
- 2 internal omni-directional antennas
- Wall Mountable

Mitel SIP-DECT Single Cell Solution vs. Mitel IP DECT Stand + 5610 DECT Handset

The new Mitel RFP 12 IP Single and 112 DECT Phone features many new enhancements and increased capacity, compared to the existing 5610 IP DECT solution. **However, it should be noted that the new SIP-DECT Single Cell RFP 12 and 112 DECT Handset are NOT backwards compatible to the existing IP DECT Stand 5610 DECT Handset.** Here is a quick comparison of the 2 solutions:

SIP-DECT Single Cell Solution	IP DECT Stand + 5610 DECT Handset
Supports up to 20 Handsets per Base Station	Supports up to 8 Handsets per IP DECT Stand
5 simultaneous calls	3 simultaneous calls
Wideband or narrowband support	Narrowband only support
Supported Codecs: G.722, G.711 or G.729	Supported Codecs: G. 711, G.729
Compact, standalone base station with unlimited deployment opportunities. Wall mounted or Desktop installation.	5300 IP Phone Base form factor. Only Desktop installation.
Supports up to 3000 entries in the shared Base Station Phone Book	Supports 170 entries in the shared IP DECT Stand Phone Book

Feature / Benefit Summary Tables
The following table highlights some of the new functionality available with the new SIP-DECT Single Cell Solution, and examines the features, advantages and benefits for Mitel customers.

Features:	Advantages:	Benefits:
Multiple handsets support on RFP 12 IP Single	Up to 20 cordless DECT handsets supported from a single LAN drop	Cost effective mobility solution ideally suited to many vertical markets
Rich, colorful display with user friendly GUI	Menu and softkey driven prompts and telephony functions	Intuitive, user friendly features, applications and softkey prompt allow cordless handset users to manage calls with little or no training
Teleworker support	Allows mobile workers to work anywhere	Increased productivity, teleworkers can be reached anywhere, anytime, and are not restricted to one area
IP DECT technology	On-premises wireless solution for secure, quality voice performance	Voice-centric mobile solution that is more robust, less expensive and less sensitive to interference than a Wi-Fi or cellular infrastructure

Mitel SIP-DECT Single Solution Technical Specifications

Mitel 112 DECT Phone Specifications

Display	
Type	1.44" TFT color LCD (128x128), 64k colors
Illuminated	Yes, backlit
Number of lines	128 x 128 pixel display
Number of characters per text line	16
Character set	ISO 8859-1 or Unicode Standard 4.1
LED Indicators	
Message Waiting	Yes
Missed Calls	Yes, Green
Keys	

Number of Keys	21 keys including 4 navigation and a confirmation key
Keypad	12 keys: 0 - 9, * and #
Off hook	1 key: Off hook and call log access from idle
On hook / power on/off	1 key: Power on/off
OK-key/Confirmation-key	1 key: Confirmation key and menu key from idle
Up/Down Navigation	Yes
Left/Right Navigation	Yes
Menu	Yes
Side keys for volume	No
Softkeys	2
Keylock	Yes (long press at * key)
Ringer mute	Yes (long press at # key)
Voice mail key	Yes (long press at 1 key)
Volume Up / Down	Yes
Hardware Features	
Battery type	2 pcs NiMH AAA, rechargeable batteries
Battery capacity	600 mAh
Speakerphone	Yes
Headset connector	3.5mm standard
Charging terminals	2 fixed
Performance Features	
Talk time (Narrowband):	Min. 8 hours
Talk time (Wideband):	Min. 6 hours
Standby time:	Min. 75 hours
Charge time (0% - 100%)	Max 10 hours
Audio Features	
Handset Ringer volume	Yes, 6 levels
Earpiece volume	Yes, 6 levels
Headset volume	Yes, 6 levels
Loudspeaker volume	Yes, 6 levels
Adjustable ringer volume	Yes, 6 levels, including Silent
Ringer melody	6 selectable, polyphonic
Key tones	On/Off
Coverage warning	On/Off
MWI warning	On/Off
Phone Mute	By long key press at # key
Menu Settings / Indicators	
Battery indication	Yes
Confirmation for menu selection	Yes
Coverage warning	Yes

Key click	Yes
Voice mail message waiting	Yes – Icon based
Ringer melody types – distinctive ringing	Depending on the type of the incoming call it is possible to select a different ringer melody. The following call types (call class) are distinguished: - Internal Call - VoIP Call
Automatic encryption (secure calls)	Yes – according to DECT standard
Call duration display	Yes Note: Only displayed at the end of call
Missed call log	Yes
Call reject option	Yes
Calling Line Identification (CLID)	Yes
Calling name support	Yes – when matching with local phonebook or when received from the RFP 12 IP Single Base Station
Date / time display	Yes
Date / time stamp logged calls / messages	Yes
Display update/refresh	When the DECT system provides (updated) display information then the handset will use this info to update the handset's display
Headset connection (incl. microphone)	Yes
Illuminated display	Yes
Illuminated keypad	No
Key click on/off	Yes
Language Support	English, French, Spanish, German, Italian, Dutch, Portuguese, Danish, Swedish, Turkish, Polish
Loudspeaker for monitoring / handsfree	Yes
Microphone mute	Yes
Last number redial list	Yes, at least redial option from last called number
Call log list	Last 20 numbers including all missed, outgoing and incoming calls
Pre-dial number preparation	Yes, edit before dial
Shared phone book in base	Phonebook database with 3000 entries are stored in RFP 12 IP Single Base Station. Up to 20 handsets can access the stand and share the phonebook database.
Recall / hold	Yes
Removable belt-clip	No
Ringer mute during call (silence)	Yes
Ringer on / off	Yes
Silent charging	Yes

Trembler/Vibrator	No
Handset Call Features	
Speed dial option	Yes
Number of Speed Dials	8 (2 – 9 keys)
Voice mail configuration	Long key press on key 1
Hands-free activation	After call established by hook off key (swap between earpiece and handsfree)
Caller ID	Yes
Call Logs	20, All, Answered, Dialed, Missed
Contacts	Name and Number
Contact size	50 entries
Call Waiting	Yes
Hold / Retrieve	Yes (by soft-key)
Call Deflection	No
Call Transfer, Blind	Yes
Call Transfer, Attended	Yes
Number of simultaneous calls/Handset	2, only one on hold
Multi line	Yes (by left navigation key)
Call Swap	Yes (by right navigation key)
Easy Redial	Yes
Time and Date Menu	
Set time	Yes
Time format	AM / PM or 24h
Set date	Yes
Daylight Savings	On /Off
Special Handset Features	
Status menu	List: Software version, IPEI, MAC address
IP search	Yes
RF	
DECT Frequency Bands	1880 – 1900 MHz (EMEA) 1920 – 1930 MHz (USA/NA) (DECT 6.0) Auto detection in handset
Output Power	<250 mW (for USA < 140mW)
Antenna	1
Software Updates	
Downloadable	Yes, via air interface with operation during upgrade
DECT	
Standard DECT interface	Yes
Wideband Audio (HD):	Yes, G.722 (HD voice)
Narrowband Audio:	G.726

Other features	
HAC compliant	Yes
Country Support	EU DECT covering European Union countries US DECT covering United States and Canada AUS DECT covering Australia and New Zealand Note: The handset can be configured for EU or US operation via software settings.
Class B Support	Yes
Handset Charger Features	
LED on charger	No
Separate adaptor	No
Switch Mode adaptor	Yes, EUP II approved
Multi-plug adaptor	Yes (NA, UK, EU, Aus), Optional

Mitel RFP 12 IP Single (DECT Base Station) Specifications

Interfaces	
Power	Input: 100-240 VAC 50-60Hz (90 – 265 VAC) Output Nom: 5VDC 1000mA Type: Switch mode single or multi-plug solution Plugs: UK, EU, US and AUS
LAN Interface	Standard : 10BASE-T (IEEE 802.3 100Mbps), Connector: RJ45 8/8
Keys	
	1: Reset key, Page, and Restore Factory Defaults
LED Indicator	
	One Status LED (multi-colour, red, green, orange)
RF	
Frequency Bands	1880 – 1900 MHz (UK/EMEA) 1920 – 1930 MHz (USA/NA) (Factory setting which can't be modified after production)
Output Power	250 mW or 140mW depending on country version
Antenna	Two antennas for diversity
Software Updates	
Downloadable	Remote firmware update using HTTP, HTTPS or TFTP
Range (Handset to Base Station)	
Indoor	50 meters (150 feet)
Outdoor	300 meters (900 feet) (EU) 250 meters (750 feet) (NA)
Call Features	
Calls Supported	5 simultaneous calls supported
Simultaneous Calls/Base	5 Wideband calls (G.722), 5 narrowband calls (PCMA, PCMU,

	G.726) or 4 G.729
Simultaneous Calls/ Handset	2
Call Features	Codec Negotiation
	Codec Switching
	Missed call notification
	Voice message waiting notification
	Date and Time synchronization
	Parallel calls
	Call Hold
	Call Retrieve
	Call transfer unannounced
	Call transfer announced
	Conference (3-Party)
	Conference, Network
	Call Waiting Indication
	Calling line identity
	Outgoing call
	Call Toggle/Swap
	Incoming call
	Line identification
	Multiple Lines
	Multiple calls
	Call identification
	Calling Name Identification Presentation (CNIP)
	Calling Line Identification Presentation (CLIP)
	Call Completed Elsewhere
	Distinctive Ringing
Central Phone Book	
LDAP	Yes
XML	Yes, remote or file load from web interface
CSV	Yes, file load through web interface
Do Not Disturb (DND)	Yes
Call Forward	Configurable from base or handset
CFU	Yes
CFNA	Yes
CFB	Yes

Call Groups	Yes, 1-20 handsets/SIP account
Hotel Mode	Yes (suppress call logs, no sound or lights during reboot, lock phone book, Settings lock, Audio settings lock, PIN protected, Contacts removed)
CODECs	
G.711 PCM A-law & U-law	Yes
G.722	Yes
G.726	Yes
G.729	A/AB (including VAD), max 4 codecs, G.729 license not included
SIP	
RFC2327	SDP: Session Description Protocol
RFC2396	Uniform Resource Identifiers (URI): Generic Syntax
RFC2833	In-Band DTMF/Out of band DTMF support
RFC2976	The SIP INFO method
RFC3261	SIP 2.0
RFC3262	Reliability of Provisional Responses in the Session Initiation Protocol (PRACK)
RFC3263	Locating SIP Servers (DNS SRV, redundant server support)
RFC3264	Offer/Answer Model with SDP
RFC3265	Specific Event Notification
RFC3326	The Reason Header Field for the Session Initiation Protocol
RFC3311	The Session Initiation Protocol UPDATE Method
RFC3325	P-Asserted Identity
RFC3326	The Reason Header Field for the Session Initiation Protocol (SIP)
RFC3489	STUN
RFC3515	REFER: Call Transfer
RFC3550	RTP: A Transport Protocol for Real-Time Application
RFC3581	Rport
RFC3842	Message Waiting Indication
RFC3891	Replace header support
RFC3892	The Session Initiation Protocol (SIP) Referred-By Mechanism
RFC3960	Early Media and Ringing Tone Generation in the Session Initiation Protocol (SIP)
RFC4475	Session Initiation Protocol (SIP) Torture Test Messages
SIPS	Secure SIP
In-band DTMF	No
SRTP	Yes, packet authentication will limit the number of calls to 4
SIP Registrations	max 20
RTP Streams	max 10
SIP Transport	UDP, TCP or TLS

Redundant Server	Yes
Web Server	
	Embedded web server, accessed using HTTP
	Easy configuration of the phone, remote configuration via Management Interface
	Password protection
IP Features	
IPv4	Yes
IPv6	Hardware ready, software not included
TCP/IP/UDP	Yes
DHCP Support	Yes
DHCP Option	66, 120
Static IP	Yes
DNS srv	Yes
VLAN	Yes, 802.1p/q
Quality of service	Type of Service (ToS) including DiffServ Tagging, and QoS per IEEE 802.1p/q
TLS	Yes, 1.0
Certificates	Yes, X.509 (certificate not included)
TFTP	Yes, for firmware and configuration file download
HTTP Server	Yes
HTTP Client	Yes, for firmware and configuration file download
HTTPS	Yes, for firmware and configuration file download
SNTP	Yes, For internet clock synchronization
DECT	
DECT Handover	Yes, inter-cell handover for repeater support
CAT-IQ v1.0	HD audio or NB audio support
Repeater Support	Yes, up to 3 per Base Station
Intercom	No
DECT Encryption	Yes
DECT Authentication	Yes
Group TPUI support	Yes, for call groups
GAP compliant	No
CAT-IQ Compliant	No
Handset Registrations	20
Other Features	
IP Quality	Warning – Network outage, VoIP service outage
Jitter Buffer	Yes, adaptive
Packet Loss Concealment	Yes
Automatic DST	Yes
Tone Scheme	Country Dependant Tone Scheme

Provisioning	Yes
Re-direct Server	Yes
SIP Configuration	Yes, from web page or configuration file
Call Groups	Yes
Platform Minimum Software Requirements	
MiVoice Business	Release 7.2
MiVoice Office 250	Release 6.1
MiVoice Border Gateway	Release 9.1, SP1
License Requirements	
MiVoice Business	Standard License or Enterprise License for each Mitel 112 DECT Phone
MiVoice Office 250	SIP Phone License Cat F for each Mitel 112 DECT Phone

Mitel SIP-DECT – Single Cell General Specifications

Physical	
Dimensions (L x W x D) Phone Base Station Repeater	13.4 x 4.2 x 2.3 cm 17.8 x 12.0 x 3.0 cm 12.0 x 13.0 x 3.0 cm
Weight Phone (incl. Batteries) Base Station Repeater	111 g (3.9 oz) 173 g (6.1 oz) 132 g (4.7 oz)
Environmental Conditions	
Operational Storage	**Temperature Humidity** 0°C to +40°C 95% at 29°C -20°C to +65°C 95% at 29°C
Product Reliability	
Vibration (packed)	(1) Free vibration: 1Hr (Random) (2) Fixed vibration: 1Hr (3-axis each) (3) Freq.: 5Hz (4) Acceleration: 1.2g
Drop Test (Carton)	(1) With full carton packaging (2) 1 corner, 6 faces and 3 edges on hard wooden ground, (3) height : 76cm under 9.5kg, 61cm if weight between 9.5kg to 18.5kg, 46cm if weight between 18.5kg to 27.5kg, 30.5cm if over 27.5kg
Drop Test (Gift Box)	(1) Floor Type: Concrete (2) Height: 95 cm. (3) Direction and times: One time for each face. One time for each corner
Drop Test (Un-packed)	(1) 6 faces on hard wooden ground Height: Handset = 1.7m, Charger/base= 1.0m (2) If base station wall mounted, added test: Base 2 faces 1.50m

Silkscreen and Paint Abrasion Test (Keypad/Keytop)	RCA machine, 2 meters@170g
Rubbing Test with Alcohol	Material: 75% - 99% alcohol and coarse cloth Loading: 450gm @ (12.5x12.5)mm^2 with 100 cycles
Regulatory Approvals	
Safety and CB Certificate	Canada / USA / EU / Australia and New Zealand: IEC60950-1:2005(2nd Ed.); AM 1:2009 EN60950-1:2006/ A1:2010 + A11:2009
EMC	EU / Australia and New Zealand: EN 301489-1 V1.9.1 EN 301489-6 V1.3.1 CISPR 22
Telecom	CANADA: CS-03 Part V (Hearing Aid Compatible) USA: FCC part 68 (Hearing Aid Compatible) US Americans with Disabilities Act (ADA) (HAC & Volume Control) Australia and New Zealand: AS/ACIF S040:2001 (Hearing Aid Compatible)
Acoustic	EU: TBR10, Edition 3 Australia and New Zealand: AS/ACIF S004:2008
Radio	Canada: RSS213, issue 2 USA: FCC Part 15, Subpart D EU / Australia and New Zealand: EN 301406 V2.1.1
SAR	USA and Canada: FCC OET Bulletin 65, Supplement IC, RSS-102 issue 2 Australia and New Zealand: IEEE Standard C95.1-2005 IEC/EN 62209-1 IEC 62209-2 IEEE Std 1528-2003

Warranty

Mitel warrants the RFP 12 IP Single (DECT Base Station), 112 DECT Phone, and RFP 12 IP Repeater for a period of one (1) year.

Configuration Information

Minimum System Software Requirements
The minimum System Software required to support the RFP 12 IP Single Base Station and 112 DECT Phone:

- MiVoice Business, Release 7.2
- MiVoice Office 250, Release 6.1
- MiVoice Border Gateway (MBG), Release 9.1, SP1

Licensing Requirements

- Each 112 DECT Phone requires a SIP License:
- MiVoice Business: Standard License or Enterprise License
- MiVoice Office 250: SIP Phone License Cat F

Powering Requirements
112 DECT Phone
The 112 DECT Phone (51303913) comes with a Charging Cradle. The Charging Cradle is powered by a Universal Power Supply (51303915) and 4 Plug types for all global regions.

RFP 12 IP Single Base Station
The RFP 12 IP Single Base Station (NA variant) (51303911) is powered by a Universal Power Supply + 1 NA Plug (51303920). It does not support PoE.
The RFP 12 IP Single Base Station (EU variant) (51303912) is powered by a Universal Power Supply + 3 Plugs (UK, EU, AUS) (51303921). It does not support PoE.

RFP 12 IP DECT Repeater
The RFP 12 IP DECT Repeater is powered by a Universal Power Adapter and 4 Plugs (51303923). It does not support PoE.

RFP 12 IP Single Deployment
Configuration through local web-interface, handset user interface, or via a configuration file using TFTP from a network server.

DECT Country Variants
The RFP 12 IP Single Base Station comes in two variants. The Euro variant works in the Standard DECT band of 1880 - 1900 MHz. The NA variant is a DECT 6.0 variant that works in the frequency band of 1920 - 1930 MHz. The 112 DECT Phone is universal, and can be configured for EU or US operation via software settings.

Because there are different bands for DECT support throughout the world, the following table outlines which IP DECT variant is supported in the various countries where Mitel has attained approvals:

RFP 12 IP Single DECT Base Station NA (DECT 6.0) (1920 – 1930 MHz)	RFP 12 IP Single DECT Base Station NA (Standard DECT) (1880 – 1900 MHz)
United States	UK / Europe (EU)
Canada	Australia, New Zealand
	Hong Kong

Note: The SIP-DECT Single Cell solution from Mitel is NOT approved for use in Latin

America, South America, or the rest of Asia Pacific (incl. Taiwan, Korea or China).

Limitations

- Although up to 20 x 112 DECT Phones are supported on the RFP 12 IP Single base station, only five simultaneous calls are supported at any one time. If 5 calls are already in progress, any other handset users who attempt to place a call will receive busy tone.
- The SIP-DECT Single Solution is NOT supported or approved in the following countries / Regions:
  - Asia Pacific (including China, Korea, Taiwan)
  - Latin America / Mexico
  - South America (including Brazil)
- Programming / Configuration of the 112 DECT Phones is NOT supported by the Desktop User Tool.
- SIP Limitations:
  - No distinctive ringing to indicate internal or external callers
  - Call Logs: In a Personal Ring Group (PRG), when the call is picked up by the 5300 Series IP Phone, a "missed call" indicator shows up on the screen of the 112 DECT Phone. This is common with all SIP Phones in a PRG (Dynamic Extension).

Competitive Information

Following are some of the single cell IP DECT offerings sold in the open SIP market.

SNOM M325

- Same OEM solution as Mitel RFP 12 Single DECT / 112 DECT Phone solution,
- Sourced from RTX
- Mitel's version also includes custom Hospitality features, as well as support for Teleworker deployment.

Panasonic KX-TGP500

- 100 phone book memory / 10 last dialed number
- 2.1" Large Monochrome LCD with white back light on cordless handset
- Support for 3 simultaneous network conversations
- Compatible with Asterisk, Broadsoft and CommuniGate Pro
- Low standby power consumption
- Programmable ring groups
- Up to 6 cordless handsets
- Up to 8 SIP registrations
- Handset Locator (Base - Handset)
- Local Intercom (Handset - Handset)
- HD Voice (G.722) on DECT radio
- 10 days stand-by and 5 hour talk time
- DID on each cordless handset
- Wall mounting
- Hands-free speaker phone on cordless handset
- Plug and Play configuration

Yealink W52P

- HD sound with wideband technology
- Up to 4 simultaneous external calls
- Up to 5 DECT cordless handsets
- Up to 5 VoIP accounts
- 1.8" color display with intuitive user interface
- 10 hours talk time, 100 hours standby time
- Integrated PoE (Class 1)
- Desktop or wall mountable

Supporting Material

Product Documentation
The following RFP 12 IP Single and 112 DECT Phone Product Documentation can be found on edocs on Mitel OnLine (under Wireless):

http://edocs.mitel.com/UG/Index.html

Documents include:

- Mitel RFP 12 Single Cell DECT VoIP System Guide
- Mitel 112 DECT Phone (Universal) Handset User Guide
- 112 DECT Phone (Universal) and RFP 12 Single Cell Base Station Installation Guide
- 112 DECT PHONE (UNIVERSAL) Quick Reference Guide (MiV Office 250)
- 112 DECT PHONE (UNIVERSAL) Quick Reference Guide (MiV Business)
- Additional information Sheet for RFP 12 Single Cell Base Station
- Additional information Sheet for Mitel 112 DECT Handset (Universal)

Marketing Collateral
Mitel SIP DECT Single Datasheet and a Customer presentation will be available on Mitel OnLine shortly.

Product images will be available in the Image Library:

http://mitel.smartimage.com/

Manufacturer Discontinue / Supercession

With the introduction of the new SIP-DECT Single Cell solution, Mitel has already announced the Manufacturer Discontinuance (MD) of the MiVoice 5610 DECT Handset and IP DECT Stand (see Bulletin PB20150165). Mitel intends to manufacture discontinue the products listed below, such that they will not be available for purchase as of January 31, 2016, or while quantities last.

Please Note: The new SIP-DECT Single Cell RFP 12 and 112 DECT Handset are NOT backwards compatible to the existing IP DECT Stand 5610 DECT Handset.

The following part numbers are affected by this retirement notice.

Mitel IP DECT Stand and 5610 DECT Handset

Discontinued Part Number	Discontinued Part Description	SIP-DECT Single IP Solution Part Number	SIP-DECT Single IP Solution Description
51301098	IP DECT Stand & 5610 Handset Bundle NA	51303911 + 51303913	RFP 12 Single Cell Base Station (NA) + 112 DECT Phone, Universal (w/Charger)

51301099	IP DECT Stand & 5610 Handset Bundle Euro	51303912 + 51303913	RFP 12 Single Cell Base Station (EU) + 112 DECT Phone, Universal (w/Charger)
51301100	5610 IP DECT Handset NA	51303913	112 DECT Phone, Universal (w/Charger)
51301101	5610 IP DECT Handset Euro	51303913	112 DECT Phone, Universal (w/Charger)
51015389	IP DECT Stand NA FRU	51303918	RFP 12 Single Cell Base Station (w/o PSU) (NA) (FRU)
51015390	IP DECT Stand Euro FRU	51303919	RFP 12 Single Cell Base Station (w/o PSU) (EU) (FRU)
51015284	IP DECT Repeater NA	51303922	RFP 12 Repeater 12 Slot, Universal
51015587	IP DECT Repeater UK	51303922	RFP 12 Repeater 12 Slot, Universal
51015285	IP DECT Repeater Euro	51303922	RFP 12 Repeater 12 Slot, Universal
51300948	IP DECT Stand Power Supply Universal FRU	51303921 or 51303920	RFP 12 Basestation 5v PSU+3 Plugs EU (FRU) or RFP 12 Basestation 5v PSU+1 Plug NA (FRU)
51015402	5610 Handset Charging Cradle Universal FRU	51303915	112 DECT Phone Charger, PSU+4 Plugs (FRU)
51300949	5610 Handset Charging Cradle Power Supply Universal FRU	51303915	112 DECT Phone Charger, PSU+4 Plugs (FRU)
51015404	5610 Handset Battery Pack FRU	51303917	112 DECT Phone NiMH rechargeable battery
51301725	5610 Handset Plastic Belt Clip FRU (25 Pack)	N/A	N/A
51015616	IP DECT Repeater Power Adapter NA FRU	51303923	RFP 12 Repeater PSU + Plugs (Spare)
51015617	IP DECT Repeater Power Adapter UK FRU	51303923	RFP 12 Repeater PSU + Plugs (Spare)
51015619	IP DECT Repeater Power Adapter Euro FRU	51303923	RFP 12 Repeater PSU + Plugs (Spare)

Questions & Answers

SIP-DECT Single Solution FAQ

Q. Is the 112 DECT Phone GAP (General Access Profile) compliant?
A. No. The 112 DECT Phone has been specifically designed to work with the RFP 12 IP Single base station, and is not transportable to other DECT base stations.

Q. Can a 112 DECT Phone roam between two RFP 12 IP Single Base Stations?

A. No, the 112 DECT Phones cannot roam between RFP 12 IP Single base stations. The intention of this SIP DECT Single Cell solution is for a small network in a small area (personal area networking). The RFP 12 IP Single base station coupled with an RFP 12 IP DECT Repeater covers off about a 300 – 600 ft. range for the 112 DECT Phones to roam. If you require hand-off or roaming between DECT Base Stations, then there are other SIP-DECT solutions available in the Mitel Portfolio which are more suited to those requirements.

Q. Does the IP DECT Stand or 5610 DECT Handset Charging Cradle support PoE?
A. No, there is no PoE support for either the IP DECT Stand or the 5610 DECT Handset's Charging Cradle.

Q. Are there any spare parts / Field Replaceable Units (FRUs) available for the 112 DECT Phone or RFP 12 IP Single Base Station?
A. Here is a list of spare parts and FRUs for the 112 DECT Phone and RFP 12 IP Single base station:

Part Number	Description
51303918	RFP 12 Single Cell Base Station (w/o PSU) (NA) (FRU)
51303919	RFP 12 Single Cell Base Station (w/o PSU) (EU) (FRU)
51303920	RFP 12 Basestation 5v PSU+1 Plug NA (FRU)
51303921	RFP 12 Basestation 5v PSU+3 Plugs EU (FRU)
51303916	112 DECT Phone, Universal (w/o Charger) (FRU)
51303915	112 DECT Phone Charger, PSU+4 Plugs (FRU)
51303917	112 DECT Phone NiMH rechargeable battery
51303923	RFP 12 Repeater PSU + Plugs (Spare)

Q. How many RFP 12 IP DECT Repeaters can be connected to one RFP 12 IP Single Base Station?
A. You can have up to three RFP 12 IP DECT Repeaters connected to the RFP 12 IP Single base station.

Q. I understand there is a Shared Phone Book in the Base Station. How many phone book entries can be stored in the Base Station?
A. The shared Phone Book in the RFP 12 IP Single base station supports up to 3000 entries.

Q. I understand that the 112 DECT Handset supports Speed Dials. How many Speed Dials are supported in the Handset?
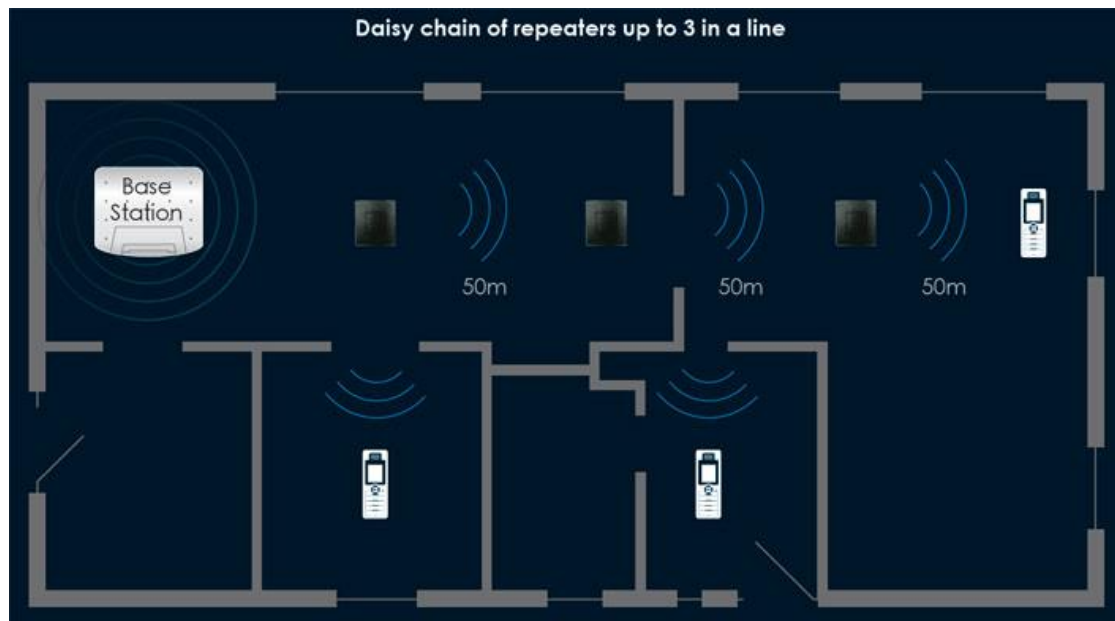A. The 112 DECT Handset supports 8 one-touch speed dials (2 - 9 keys).

Q. When using the RFP 12 IP DECT Repeater behind the RFP 12 IP Single Base Station, does the total number of 112 DECT Phones supported for each RFP 12 Single change (as it did on the IP DECT Stand and 5610 DECT Handset)?
A. No. Up to 3 RFP 12 IP Repeaters can be associated with the RFP 12 IP Single Base Station, and it does not affect the support or count of 112 DECT Phones. Up to 20 x 112 DECT Phones can also be supported, even if you are using 3 IP Repeaters.

Q. Can I connect multiple RFP 12 IP DECT Repeaters as a daisy chain, i.e. RFP 12 IP Single - -----> IP Repeater ------> IP Repeater ------> IP Repeater?
A. Yes, you can daisy chain multiple RFP 12 IP DECT Repeaters from the RFP 12 IP Single Base Station (as shown below). The RFP 12 IP DECT Repeaters can be used to extend the coverage of the RFP 12 IP Single Base Station area in all directions - including up and down (e.g. to cover several floors in a building).

Daisy chain of repeaters up to 3 in a line

Q. Are the RFP 12 IP Single Base Station and the 112 DECT Handset branded?
A. Yes. The Mitel name and logo brand appears on the display screen of the handset when it is in idle mode, and the Mitel Logo and name appears on the front of the RFP 12 IP Single Base Station. There are no other "Mitel" brand markings on the 112 DECT Phone, base station or IP Repeater.

Q. Is there an option to custom brand the 112 DECT Phone?
A. This option is not available in the first release of this product. It may be available in a future release.

Q. Can the power output be adjusted on the RFP 12 IP Single Base Station to reduce / increase the range of the 112 DECT Phone?
A. No, this is not a configurable option in the RFP 12 IP Single. This functionality is coded into the base station as part of the DECT standard.

Q. Does the SIP-DECT Single Cell solution support encryption (security)?
A. Yes, automatic encryption as per the DECT Standard is supported on both the RFP 12 IP Single and the 112 DECT Phone.

Q. Mitel offers a number of SIP-DECT solutions. How is this SIP-DECT Single Cell solution different from the other wireless mobility solutions in the portfolio?
A. The RFP 12 IP Single DECT / 112 DECT Phone is differentiated from the rest of the SIP DECT portfolio in that it is a low cost, single cell solution (i.e. roaming from one base station to another is not supported).

Q. Will the SIP-DECT Single Cell solution be available on other platforms in addition to the MiVoice Business and MiVoice Office 250 communications platforms?
A. Interop testing behind the heritage Aastra platforms will occur post-GA of the product within heritage Mitel channels. Once this interop testing has been completed Mitel plans to launching the SIP-DECT Single Cell solution into heritage Aastra Call Manager channels. Interop testing behind Open Solutions platforms such as Broadsoft and Metaswitch will also be looked at post-GA, such that the product can be launched into the Open Solutions market.

Part Number	Description

51303911	RFP 12 Single Cell Base Station (NA) Product Notes(s): Includes: 51303918 RFP 12 Single Cell Base Station NA (FRU) 51303920 Basestation 5v PSU + 1 Plug NA (FRU) Minimum System Software: MiVoice Business¸ Release 7.2 MiVoice Office 250¸ Release 6.1 Teleworker (MBG)¸ Release 9.1 SP1 Each Base Station supports up to 20 Mitel 112 DECT Handsets and up to 3 Repeaters.
51303912	RFP 12 Single Cell DECT Base Station (EU) Product Notes(s): Includes: 51303919 RFP 12 Single Cell Base Station (EU) (FRU) 51303921 Basestation 5v PSU+3 Plugs(UK¸ Euro¸ Aus) EU(FRU) Minimum System Software: MiVoice Business¸ Release 7.2 MiVoice Office 250¸ Release 6.1 Teleworker (MBG)¸ Release 9.1 SP1 Each Base Station supports up to 20 Mitel 112 DECT Handsets and up to 3 Repeaters.
51303913	112 DECT Phone, Universal (with Charger) Product Notes(s): Includes: 112 DECT Phone¸ Universal (w/o Charger) (FRU) (51303916) 112 DECT Phone Charger¸ PSU+4 Plugs (FRU) (51303915) 112 DECT Phone NiMH Rechargeable Battery (51303917) Supports both NA and Standard EU DECT radios Minimum System Software: MiVoice Business¸ Release 7.2 MiVoice Office 250¸ Release 6.1 Teleworker (MBG)¸ Release 9.1 SP1 Requires RFP 12 Single Cell Base Station (51303911 or 51303912) to operate.
51303922	RFP 12 Repeater, 12 Slot, Universal Product Notes(s): Includes: RFP 12 Repeater¸ 12 Slot RFP 12 Repeater PSU + 4 Plugs Up to 3 Repeaters can be added to the RFP 12 Base Station.
51303918	RFP 12 Single Cell Base Station NA FRU Product Notes(s): Spare Part Component of 51303911
51303919	RFP 12 Single Cell Base Station EU (FRU) Product Notes(s): Spare Part Component of 51303912
51303920	RFP 12 Basestation 5v Power Supply +1 Plug NA FRU Product Notes(s): Spare Part Component of 51303911
51303921	RFP 12 Basestation 5v Power Supply+3 Plugs (UK, Eu, Aus) FRU

Product Notes(s):
Spare Part Component of 51303912
Contains UK¸ Euro and Aus Plug Types.

51303916   112 DECT Phone, Universal (w/o Charger) (FRU)
                  Product Notes(s):
                  Spare Part Component of 51303913
                  Does not contain Power Supply or regional Power Cords.

51303915   112 DECT Phone Charger + Power Supply + 4 Plugs (FRU)
                  Product Notes(s):
                  Spare Part Component of 51303913
                  Includes Handset Charger¸ Power Supply and
                  4 regional plug types (NA¸ UK¸ Euro & Aus).

51303917   112 DECT Phone NiMH Rechargeable Battery Single (FRU)
                  Product Notes(s):
                  Spare Part Component of 51303913

51303923   RFP 12 Repeater Power Supply + 4 Plugs (FRU)
                  Product Notes(s):
                  Spare Part Component of 51303922

For more information on this Bulletin, please contact your Mitel Networks Account Executive.

Certain Mitel product within this document may not be available to all Solution Provider levels. To purchase available products, Mitel product certification is required.