



SETU VP236

Intelligent, Intuitive and Feature-rich VoIP Phone

VoIP has emerged as an attractive telephony option. Both, at personal and organizational level, increasingly people are switching to VoIP to benefit from the advantages offered by this new technology. A powerful VoIP Phone is needed to empower its user to exploit the advantages to the fullest. An intelligent VoIP Phone thus becomes the vital link between the user and the IP network.

Introducing Matrix Setu VP236 — An Intelligent, Intuitive and Feature-rich VoIP Phone!

Matrix Setu VP236 is based on the open standard SIP making it compatible with any VoIP infrastructure. It can work with any SIP Registrar/Proxy, IP-PBX or even in a stand-alone mode. Matrix Setu VP236 offers a host of intelligent intuitive features that save time and increase productivity.

Let Matrix Setu VP236 connect you to the new and exciting world of VoIP telephony!





Matrix Setu VP236 is a SIP based VoIP Phone with 2 Ethernet ports meant for LAN (Network) and PC. It can be used with any existing VoIP infrastructure. It works as an intelligent terminal of IP-PBX, SIP Registrar or Proxy. Setu VP236 can also be used in a stand-alone mode in point-to-point and point-to-multi-point applications.

Making an outgoing call is as easy as from a normal telephone. Call progress tones like Dial Tone, Ring Back Tone and Busy Tone are fed to the caller as per the called number status. The user can make outgoing calls on one of the two SIP accounts. In addition,

number based automatic SIP account selection is provided to select the most economical SIP account for a given outgoing number.

An incoming call from a SIP account can land on the Setu VP236. Multiple calls can be received and managed simultaneously.

Once a call is established, features like Call Hold, Call Toggle, Call Transfer, Call Wait and Conference are supported to manage multiple calls. Call Forward in different conditions and Do Not Disturb are also provided.

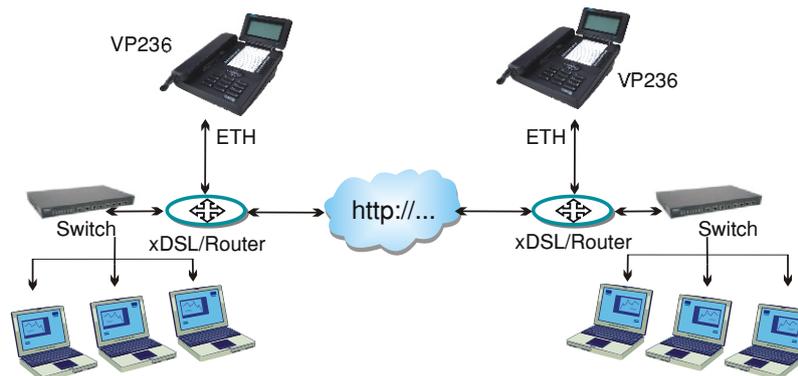
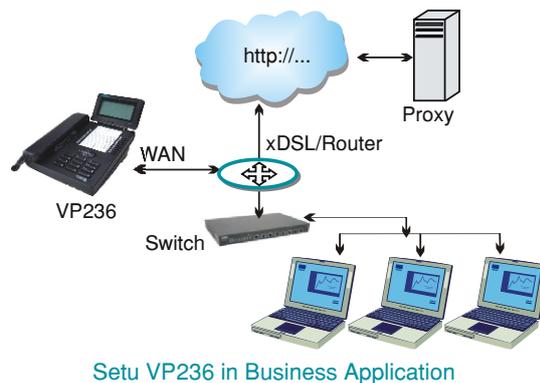
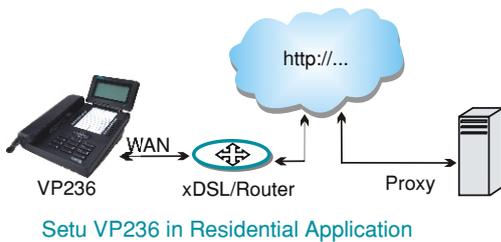
Setu VP236 is specially designed for busy executives to offer intuitive user experience, saving valuable time and thus increasing productivity. Full-duplex Speaker Phone, Headset Interface, Programmable Keys, Auto Answer, Speed Dial and many such useful features are supported.

Matrix Setu VP236 is easy to install and operate. It can be configured using its built-in web pages served by the internal HTTP server. Auto Configuration is also supported for service providers or IP-PBX to control multiple phones from a centralized server.

Matrix Setu VP236 is available in two variants :

- (i) Setu VP236 with 2 lines x 24 characters LCD Display
- (ii) Setu VP236 with 2 lines x 24 characters LCD Display

APPLICATIONS OF SETU VP236



■ KEY FEATURES

3-Party Conference

This unique feature supports 3-party conference without affecting the speech levels. The user can also toggle between two remote parties or connect them and withdraw himself from the conference.

Adjustable LCD Display

The Setu VP236's LCD display angle can be adjusted as per the user's convenience. The LCD's brightness and contrast can also be adjusted to improve readability.

Anonymous Call Rejection

Setu VP236 facilitates the user to reject incoming calls that do not have a Name or Number. Such calls are treated as unknown calls, which the user would not like to receive.

Auto Answer

Setu VP236 allows answering of the call without the user's intervention, on expiry of auto answer timer which is programmed. If any incoming call is received, Setu VP236 simulates the off-hook condition by activating the headset to answer the call automatically.

Auto Call Back

When the dialed number is busy, the user can apply the Auto Call Back feature so that his call gets in queue. When the called number is free, the user gets a call back notification on the LCD or LED. This helpful feature spares the user the effort of repeatedly dialing the same number, if it is supported by ITSP or IP-PBX.

Black Listed Callers' list

Setu VP236 allows the blocking of all incoming calls from specific addresses on SIP accounts, thus shielding users from unwanted junk calls.

Call Appearances

This intelligent feature gives the user a notification about 4 calls. While the user is attending a second call by putting the first call on hold, if more incoming calls land on the user's station, Setu VP236 gives indication for the third and the fourth call as a call waiting. The user can attend these calls by terminating any of the previous active calls or putting the previous call on hold.

Call Forward

Matrix Setu VP236 provides the user flexibility to forward his calls to a desired destination number. The calls can be forwarded in conditions like All Call, When Busy or When No Reply. The user can forward the calls on one number during the When Busy condition and to another number during the No Reply condition.

Call Hold

Matrix Setu VP236 allows the user to put the active call on hold and retrieve the second call which is in queue. The user can retrieve the first call again during the second call or on completion of second call. Setu VP236 notifies the user by indicating the call which is kept on hold.

Call Log

Setu VP236 is capable of keeping the log of 100 calls in its internal memory. 20 calls each of Dialed Calls, Answered Calls, Unanswered Calls, Rejected Calls and Forwarded Calls with details like Call Number, Called Party Name, Call Day-Date-Time and Call Duration are stored in Setu VP236.

Call Mute

Setu VP236 allows the user to set a one-way speech and to avoid transmission of speech packets to the remote party.

Call Progress Tones and Rings

Setu VP236 provides Call Progress Tones like Dial Tone, Ring Back Tone and Busy Tone. Country-specific tones can be selected to match the tones of the country where it is installed. Similarly, ring cadences can also be selected.

Call Toggle

The user can handle up to four calls simultaneously, switching over from one active call to another held.

Call Transfer

The Setu VP236 allows the user to transfer the call after or without talking to the remote party to whom the call is being transferred. Setu VP236 supports two types of call transfers namely Unattended (Blind) Transfer and Attended Transfer.

Call Waiting

This feature notifies the Setu VP236 user about another incoming call during an active call.

Calling Options

Matrix Setu VP236 incorporates advanced calling functionality. The various options provided for making calls are - Using Handset, Using Speakerphone, Using Headset and Hot Pad Dialing. During an active call, the user can switch between handset, headset and speaker mode.

CLIP

CLIP based on information received from SIP message is supported by Setu VP236.

CLIR

Setu VP236 offers the facility of calling line identity restriction. Selected users can deny disclosure of their identity to others.

Auto Configuration

Setu VP236 can be configured automatically from a central location. The configuration details like Registrar Server Address, Authentication User ID and User Password are stored in the central server. When the user connects Setu VP236 to the network, it automatically downloads its configuration using TFTP. This plug-n-play feature requires the user to enter only the server address provided by the service provider.

Compact and Sturdy

Matrix Setu VP236 is an integrated IP Phone which can be installed on a wall or any table surface.

Day Light Saving

Setu VP236 synchronizes with the NTP server's clock timing to move forward or backward as per duration set in the system, automatically in tune with the Day Light Saving requirement of the country where it is installed. The options like Week-Day-Month or Date-Month are provided to move the clock forward and backward automatically on the specified day, date and time.

Dial Plan

Setu VP236 provides a list of 10 programmable numbers or part numbers with economical SIP account. When a user dials a number, it gets the matching entry from the list using "best-fit" logic and uses the SIP account given therein. This ensures lowest cost for all the outgoing calls.

Do Not Disturb Number List

This feature allows the user to receive calls from specific numbers only. Thus Matrix Setu VP236 provides the user privacy, shielding him from unwanted calls.

Hotline

If a particular number is dialed frequently, it can be programmed as a hotline number. Setu VP236, waits for some time for the user to dial a number, if the user does not dial any number, VP236 dials out the hotline number automatically. Option is also provided to set Setu VP236 to dial the number immediately without waiting for the user to dial the number.

Key Assignment

Setu VP236 allows the user to assign certain features to be accessed by the touch of a single key. The user can use specific feature by pressing the keys assigned to them. A total of 18 keys are provided to be programmed for the specific feature to be performed by them.

Keypad Lock

Setu VP236 can be prevented from unauthorized use by locking the keypad. The options for keypad lock are (i) Manual Locking and (ii) Auto Locking. The User Password is required to unlock the keypad in both cases.

Least Cost Routing

The Setu VP236 selects a port that offers the least cost for an outgoing call. It supports dialed number (Dial Plan) based LCR algorithm to select the most cost-effective route for making the call.

Network Port Parameters

Considering various network conditions and application usage, Setu VP236 provides flexibility to program network parameters as per the requirement. Parameters like PPPoE, IP Address, DHCP, STUN, NAT, DNS, and Gateway, can be programmed through Web Jeeves or Phone.

Notifications

Setu VP236 has the facility to provide the indication to the user about specific operation or event occurred. In the event of the Call Transfer, Voice Mail, Call Forward and Auto Call Back, Setu VP236 displays the status on LCD Display. Also the notification for Voice Mail and Auto Call Back is provided by LED.

Password

The configuration of Setu VP236 is user specific and allows itself to be programmed by the user by providing two passwords: Configuration Password and User Password. The Configuration Password is used for programming the Setu VP236 and the User Password is used for unlocking the keypad.

Peer-to-Peer Calling

Setu VP236 can make and receive calls from other VoIP users without any Registrar or Proxy servers. Numbers and IP addresses can be assigned to other VoIP users to provide direct access across the network. Setu VP236 provides two dialing options for Peer-to-Peer calling: (i) Peer-to-Peer Number Dialing (ii) IP Address Dialing. Organizations having multiple locations like branch offices and factories can use this feature to provide direct dialing between these end-points.

Phone Book

Frequently used numbers with names can be programmed in the internal phone book with 100 entries. On using "Search Contact" functionality, Setu VP236 displays the entire phone book by names in alphabetical order on the LCD screen. The user can select the desired number and dial out the same.

PPPoE

Setu VP236 supports PPPoE client and hence can be used with xDSL modems.

Quality of Service (QoS)

QoS is the method of prioritization of voice packets over IP network. Matrix Setu VP236 supports TOS and DiffServe to facilitate improved voice quality.

SIP Accounts

Two SIP accounts can be programmed and outgoing calls can be routed to SIP accounts based on LCR, Dial Plan or Manual Selection by the user. Dynamic allocation of SIP account is also possible using the Dial Plan.



Setu VP236P

STUN

This capability allows Matrix Setu VP236 to work behind asymmetrical NAT.

Speed Dial

Setu VP236 facilitates the user to dial a number at the touch of a single key instead of dialing the entire number. A total of 18 numbers can be programmed as Speed Dial Numbers and each number can be assigned a specific key. When the user presses the speed dial key, the number is displayed on the LCD screen and will be dialed out.

Voice Mail

Setu VP236 can retrieve voice mail messages at the touch of a single key from the VMS server located at ITSP or IP-PBX. Setu VP236 notifies the user about new messages in the mailbox in the form of LED and text prompt (VM) on the LCD display.

Volume Setting

Matrix Setu VP236 allows the user to set receive and transmit gain to improve the quality of speech. The Speaker Volume, Handset Volume, Headset Volume and Ringer Volume, can be adjusted for better audio quality.

Web Jeeves

Matrix Setu VP236 incorporates built-in HTTP server and web pages for configuration parameters. This web based programming feature helps the user to configure Setu VP236 from any part of the world once it is connected with the IP network.

FEATURES

Software Features

3-Party Conference
 4-Call Appearance
 Anonymous Call Rejection
 Auto Answer
 Auto Call Back
 Auto Configuration
 Black Listed Callers' List
 Call Appearances
 Call Log
 Call Mute
 Call Progress Tones and Rings
 Call Toggle
 Calling Options
 CLIP
 CLIR
 Comfort Noise Generation
 Compact and Sturdy
 Day Light Saving
 DHCP Client
 Dial Plan
 Do Not Disturb (DND)
 DND List
 Echo Cancellation
 Forward Error Correction (FEC)
 Hotline

Key Assignment
 Keypad Lock
 Least Cost Routing
 LED Indications
 Notifications
 Password Protection
 Peer-to-Peer Calling
 Phone Book
 PPPoE
 Quality of Service (QoS)
 Receiving a Call (Handset, Headset, Speaker)
 Rejecting a Call
 Remote Programming
 Search Contact
 Selective SIP line
 SIP Accounts
 Speed Dial
 STUN
 Supplementary Services*
 Call Forward On Busy*
 Call Forward On No Reply*
 Call Hold*
 Call Waiting*
 Call Transfer-Blind*
 Call Transfer-Attended*

Conference 3 Party*
 Making Second Call*
 Voice Activity Detection
 Voice Mail*
 Volume Setting
 Web Jeeves

Features marked "" are dependent on the ITSP or IP-PBX.*

Hardware Features

1 LAN Port for Switch, Router or xDSL Modem Connectivity
 1 PC (LAN) Port for PC Connectivity
 1 Speaker Key
 18 Programable Keys
 5 Navigation Keys
 Full Duplex Speaker Phone
 Head set interface
 Ringer LED
 Swivel Backlit LCD display

TECHNICAL SPECIFICATIONS

VoIP

VoIP Protocols : SIP v2, SDP, RTP, RFC 2833
 Network Protocol : IPv4, TCP, UDP, DHCP, SNTP, STUN, HTTP, PPPoE
 SIP : 2 SIP Accounts, Out Bound Proxy Support
 NAT : STUN and NAT Keep Alive
 Voice Codecs : G.711 A-Law, μ -Law, G.722, G.723-5.3, G.723-6.3, G.726-16, G.726-24, G.726-32, G.726-40, G.729AB
 Call Progress Tones : Dial Tone, Ring Back Tone, Busy Tone, Error Tone, Waiting Tone
 Voice : Dynamic Jitter Buffer (Adaptive), Comfort Noise Generation and Voice Activity Detection
 Quality of Service : Layer 3 DIFFServ and TOS
 Data Network : LAN Port (RJ45), 10/100 Base T with PoE
 PC Port (RJ45), 10/100 Base T
 Security : Password Protected Configuration

Power Supply

Input	: 5VDC @2A through External Adaptor (90-265VAC, 47-63Hz) and Power-on-Ethernet (PoE)
Power Consumption	: 5W (Typical)
Connector	: DC Power Jack

Mechanical

Dimensions (WxHxD)	: 19.0x8.5x22.5cm (7.5"x3.3"x8.9")
Unit Weight	: 0.80Kgs (1.7lbs) Approx.
Shipping Weight	: 1.25Kgs (2.7lbs) Approx.
Material	: ABS Plastic
Installation Mounting	: Wall and Table-Top

Environmental

Operating Temperature	: -10°C to +50°C (14°F to +122°F)
Storage Temperature	: -40°C to +85°C (-40°F to +185°F)
Operating Humidity	: 5-95% RH (Non-Condensing)
Storage Humidity	: 0-95% RH (Non-Condensing) at 40°C

VoIP PRODUCTS FROM MATRIX

Setu ATA2S	SIP based Analog Telephone Adaptor with 2-SIP Accounts, 2-FXS Ports and 1-WAN Port
Setu ATA2LL	SIP based Analog Telephone Adaptor with 2-SIP Accounts, 2-FXS Ports, 1-WAN Port, 1- LAN Port and 1-FXO (Lifeline) Port
Setu VFX44L	SIP based VoIP Gateway with 9-SIP Accounts, 4-FXS Ports, 1-WAN Port and 1-FXO (Lifeline) Port
Setu VFX88L	SIP based VoIP Gateway with 9-SIP Accounts, 8-Voice Channels, 8-FXS Ports, 1-WAN Port and 1-FXO (Lifeline) Port
Setu VP236S	Executive IP-Phone with 2-SIP Accounts, 1-WAN Port and 18 Programmable Keys and 2 Lines x 24 Characters Backlit LCD Display
Setu VP236P	Executive IP-Phone with 2-SIP Accounts, 1-WAN Port and 18 Programmable Keys and 6 Lines x 24 Characters Backlit LCD Display



ABOUT MATRIX

An ISO 9001 Company, Matrix is a leader in the VoIP, GSM, Key Phone System and PBX market. An innovative, technology driven and customer focused organization; the company is committed to keep pace with revolutions in the telecom industry. This has resulted in bringing forth cutting edge products like Digital and ISDN Key Phone Systems, Voice Messaging Products, GSM Gateways, VoIP Gateways, VoIP PBXs, Intercom Security Products and PLCC Switches. With over 1,000,000 line units installed and growing by over 1000 line units per day, the installed base of Matrix connects over 10,000,000 calls everyday. Thus, Matrix has gained the trust and admiration of users representing the entire spectrum of industries. Matrix has won many awards for its innovative products.

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