



VISIONULTRA

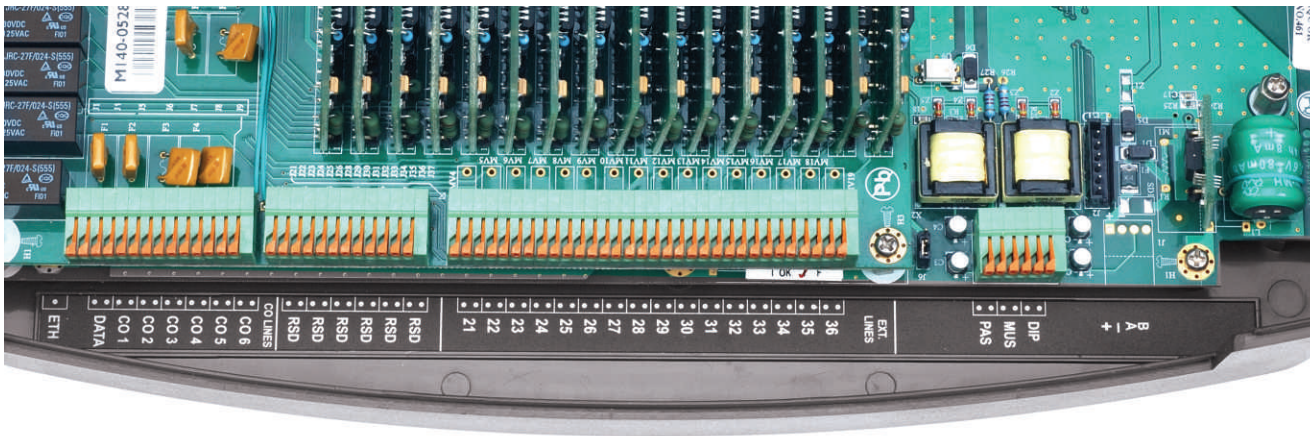
The Growth Accelerator

Modern offices require a unique and completely integrated communication solution. Presenting: Matrix VISIONULTRA, a premium feature packed PBX specially designed for modern offices. It is packed with unique features that are powered by Microcontroller based design. Designed after a study of the way in which modern businesses operate; Matrix VISIONULTRA offers integrated solutions for your communication problems.

SMT hardware design ensures a very compact design and low power consumption. SLIC used for the extension interface ensures robust, reliable and maintenance free performance. The unique features provided in the system ensure smooth and efficient call management. Special features are provided that give professional response to the callers, hence enhancing the image of the organization. Matrix VISIONULTRA is "The PBX for Office", designed for those who don't compromise.

Get the power of Matrix VISIONULTRA for your office. Because those who compromise cannot have accelerated growth!





Efficient Call Management for Offices

Reliable and Maintenance-free Performance

Matrix VISIONULTRA is built around Microcontroller based architecture and utilizes state-of-the-art Surface Mount Technology (SMT). Coupled with SLIC based design, the system ensures robust, reliable and maintenance free performance.

VISIONULTRA offers optional connectivity of Door Phone Port and Digital Output Ports.

The system offers built-in Auto-Attendant, Security Dialer, Internet Ready Port, DTMF and FSK CLI, Digital Input Port, Analog Input Port, Analog Output Port, Remote Status Display Port, Remote Programming, etc., normally are not available in most other systems, and even if available they warrant additional investment.

VISIONULTRA offers efficient call management by way of Alternate Number Dialing, Auto-Attendant and CLI based Routing. It can have a complete control over telephone cost through its intelligent features like Allowed and Denied Lists, Least Cost Routing, SMDR Reports and Live Call Supervision. It also helps in enhancing image of the organization through its unique features like Name Programming and Dial-by-Name.

Make the winning difference for your organization by switching to Matrix VISIONULTRA because only those grow faster who don't compromise!



VISIONULTRA

VISIONULTRA CONFIGURATIONS

VISIONULTRA206P

PBX with 2 Trunks and 6 Extensions

VISIONULTRA308P

PBX with 3 Trunks and 8 Extensions

VISIONULTRA412P

PBX with 4 Trunks and 12 Extensions

VISIONULTRA616P

PBX with 6 Trunks and 16 Extensions

KEY FEATURES

Allowed and Denied Lists

This function prevents misuse of long distance and international dialing to control telephone cost. A comprehensive list of numbers can be included in the Allowed and Denied Lists. However, it allows dialing of a few numbers and restricts dialing of other numbers in the same area. For example: An extension can dial only '22-628-5738' but not any other number starting with '22'.

Alternate Number Dialing

Whenever redial or auto redial is used, the VISIONULTRA dials out the next alternative number instead of the same number that is found engaged.

Auto-Attendant

The caller can directly reach an extension without the help of an operator. The system has a built-in Auto-Attendant playing different message like welcome message, Dial-by-Name, Dial Extension, Busy, No-Reply, Transferring to Operator, etc. These messages can be recorded in a 4-minute voice module. It also allows the caller to a desired extension by dialing the name of the extension user.

Auto Redial - Multiple Numbers

This feature redials a busy number till it gets through. The user is free to concentrate on his work while the system is trying a busy number. The extension gets a ring and the number connected to is displayed on the telephone when the call goes through. Each user can submit up to 3 numbers for auto redial.

Battery Charger Circuit

The system has a built-in battery charger circuit which can be connected to 24VDC, 7AH battery. It gives a back-up time of 4 hours. In case of power failure, the system power switches over to battery and on resumption it switches back to the mains power supply.

Caller Line Identification (DTMF and FSK)

This function identifies the phone number of the caller and displays it on the telephone. The CLI is displayed for both internal and external caller. Even in case of a call being transferred from one extension to another, the system informs about both the numbers.

Class of Service

It allows the supervisor to decide upon the access rights to features for each extension. Thus allowing you to configure the system as per your requirements. For example, extension 201 (middle management executive) can have features like conference, Auto Redial, Abbreviated Dialing, Alarms, Do-not-Disturb and call transfer only; whereas Extension 501 (pantry) can be configured to dial intercom numbers only.

CLI based External Call Forwarding (ECF)

The system offers the facility of forwarding selective incoming calls to a desired external number. Selective call forwarding is possible by defining a string of numbers. For example, the system could be programmed such that all numbers with a prefix '22' are forwarded to the residence number, however a very important number '22-628-5738' is forwarded to the mobile.

CLI based Routing

The system can be programmed such that particular numbers land at specified extensions directly without the assistance of an operator, thus saving time and cost for the callers. It is of great utility in case of long distance calls.

Digital Output Ports#

VISIONULTRA provides an option of connecting three Digital Output Ports, thus enabling three electrical devices like Door Lock, Relay Port, Fan, etc. to be operated simultaneously. These non-energized DOPs can be switched ON/OFF manually or automatically. DOPs can be operated locally as well as from remote location.

External Music Port (AIP)

An external music source like a CD player or FM radio can be connected to this port. It can be used to play a desired piece of music to the caller on hold.

Fax Homing

Voice and fax calls can be received on the same trunk. VISIONULTRA automatically directs an incoming fax call to an extension where a fax machine is connected.

Inbound Call Analysis

500 incoming calls can be stored in the memory with details such as caller's number, trunk, extension, date and time of the call, call duration etc. These calls can be analyzed with the help of multiple filters like caller's number, extension, call duration, etc. Results of the analysis can be sent to a computer through the RS232C port.

Internet Ready Port

A special port is provided to connect the modem to VISIONULTRA. This port connects the modem directly to the trunk line eliminating noise and increase data transfer speed. Further it is an extra port leaving all regular extension ports for voice calls.

Jeeves

Matrix VISIONULTRA comes along with Jeeves- a Windows based Graphic User Interface (GUI) software tool for programming the system. It is intuitive, user friendly and supports languages like English, French, Spanish, German, Russian, Portuguese and Italian. Jeeves makes programming of VISIONULTRA a child's play!

Least Cost Routing

The system can be programmed to ensure least cost incurred for each call by choosing specific trunk lines based on their prevailing tariffs. This function has a great utility now with the presence of multiple basic service providers offering various tariff plans for diverse destinations during different timings.

Live Call Supervision

A monitoring-security feature which allows the supervisor to know the phone number with whom an extension user is talking to.

Programmable Access Codes

This function allows you to define feature access code as per your convenience. This feature offers the users great convenience as they do not have to remember the new codes in case of change of the system.

Resetable Fuse

The system is accompanied with an auto-resetable fuse on trunk and extension lines. Hence VISIONULTRA assures complete protection against high voltages from trunk as well as extension lines thereby increasing reliability of the system.

Scheduled Dial Facility

The system can be programmed to enable/disable dialing trunks at a pre-specified time. This facility is of great use to lock long distance and international lines at set timings, thereby preventing misuse. For example: if it has been left open accidentally.



Remote Status Display Unit

VISIONULTRA provides built-in RSD port to which accessory - the RSD Unit can be connected. It displays status of 16 stations, Door Phone port/station, SMDR Buffer, System Day/Night Mode and Trunks.

Security Dialer

VISIONULTRA provides built-in Digital port to connect any type of the sensor like, glass break sensor, smoke detector, motion detector, etc. A highly effective security feature that dials 3 different numbers and plays a pre-recorded message in case of an emergency.

SLIC Based Design

Excellent loop resistance and improved speech performance. With no moving parts, the durability of the system increases, besides it also leads to low stand-by power consumption.

SMDR

It allows detailed report generation and printing for all outgoing and incoming calls with strong filtering capability and separate buffer capacity for each category - 500 incoming and 500 outgoing calls.

Station and Trunk Name Display

Each time you get a call, the caller's name shall be displayed on your extension. This feature is available on all single line telephones as well as on trunk lines.

■ FEATURES LIST

- Abbreviated Dialing (Global, Personal)
- Alarms (Daily, Duration, Remote, Time)
- Allowed and Denied Lists
- Alternate Number Dialing
- Analog Input Port (External Music Port)
- Analog Output Port (PAS Port)
- Auto-Attendant
- Auto Call Back (Busy, No Reply)
- Auto Redial-Multiple Numbers
- Barge-In
- Battery Back-up
- Behind the PBX Applications
- Boss Ring
- Call Duration Control (All, Selective calls)
- Call Forward (All, Busy, No reply, Follow Me)
- Call Park
- Call Pick Up (Group, Selective)
- Call Progress Tones
- Call Splitting
- Call Transfer (Screened, While Ringing, On Busy, Trunk to Trunk)
- Calling Line Identification and Presentation (CLIP- DTMF, FSK)
- Class of Service (CoS)
- CLI (Trunk, Station)
- CLI based External Call Forwarding
- CLI based Routing
- Computer Connectivity
- Conference-3 Participants (Supervised, Unsupervised)
- Configuration Reports
- Continued Dialing
- Country Settings (India, Italy, Spain, USA/Canada, Australia)
- Day/Night Mode (Auto, Manual)
- Department Call (Pilot Number)
- Dial-by-Name
- Digital Input Port (Sensors)
- Digital Output Port (Control Applications)[#]
- Direct Inward Dialing (DID)
- Direct Inward System Access (DISA)
- Distinctive Rings
- Door Phone (2-Wire/4-Wire)[#]
- Door Lock[#]
- Dynamic Lock (Auto, Manual)
- Emergency Dialing (Country Specific)
- External Call Forward (All, Selective)
- Fax Homing
- Flash Timer
- Flexible Numbering
- Hold
- Hotline (Immediate, Delayed)
- Internet Ready Port
- Interrupt Request
- Last Number Redial
- Least Cost Routing (Time, Number, Combined, Carrier Pre-Selection)
- Live Call Supervision
- Music-on-Hold - Internal, External, Voice Module
- Operator
- Paging
- Power Down Mode
- Privacy
- Programmable Access Codes
- System Programming (from SLT, Jeeves)
- Raid
- Real Time Clock
- Remote Programming (from SLT, Mobile)
- Remote Status Display
- RS232C Port
- Scheduled Dialing
- Security Dialer-3 Numbers
- Station Group
- Station Message Detail Recording-Incoming and Outgoing
- Station and Trunk Name Display
- System Security (Passwords)
- System Timers
- Time Table
- Toll Control
- Trunk Access Groups
- Trunk Landing Groups
- User Security (Password)
- Voice Greetings for Alarms
- Voice Guided help for DOSA & DID (Busy, No reply, Transfer, Wrong Dial)
- Voice Message for Auto Redial
- Voice Greetings for Day and Night
- Voice Message for Security Dialer
- Walk-in Class of Service

[#]Optional module required

■ TECHNICAL SPECIFICATIONS

Technology

Type of Switching : Space Division (Cross Point)

SLT(Analog Station)

Signaling : Loop Start
Dialing : DTMF and Pulse (10/20PPS)
Off Hook AC Impedance : 600Ω
Off Hook Current : 39mA Max.
Loop Limit : 270Ω Max (Excluding Telephone)
On-Hook Voltage (Tip/Ring) : -48V Nominal
DTMF detection : ITU-T Q.24
Return Loss : > 18dB
Longitudinal Balance : > 40dB
Ringing : Trapezoidal 55Vrms/30Hz
REN : 3
CLI Presentation : DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Protection : Over Voltage Secondary Protection
Physical Connector : Push Type (Single Pair Wire, 0.5mm)

TWT (2-WIRE TRUNK)

Signaling : Loop Start
Loop Limit : 1200Ω
Off Hook AC Impedance : 600Ω
Pulse Dialing : 10/20 PPS
DTMF Dialing and Reception : ITU-T Q.23 and Q.24
Return Loss : > 18dB
Longitudinal Balance : > 40dB
CLI Reception : DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Call Maturity : Delay and Polarity Reversal
Protection : Over Voltage and Over Current Secondary Protection
Physical Connector : Push Type (Single Pair Wire, 0.5mm)

Transmission Parameters (Between FX0-FXS)

Insertion Loss : < 1dB
Inter-Channel Cross Talk : < -65dBm
Idle Channel Noise : < -70dBmOp

Auxiliary Ports

Analog Input Port : 0.7 Vrms, Isolated, 1KΩ, Push-Type Connector
Analog Output Port : 0.7 Vrms, Isolated, 1KΩ, Push-Type Connector
Digital Input Port : Loop Sensing-Open/Close, 5mA, Push-Type Connector
Digital Output Port : VDC Max. =60VDC, IDC Max. = 0.15A, Push-Type Connector
Door Phone Port : 2-Wire/4-Wire Door Phone

Power Supply

Input : 90-265VAC, 47-63Hz
Power Consumption (Typical) : 20W
Battery Back-up : 24VDC, 7-10AH

Mechanical

Dimensions (WxHxD) : 25.5x32.7x7.5cm (10"x12.9"x2.9")
Unit Weight : 1.8kg (4.0lbs)
Shipping Weight : 3.6kg (7.9lbs)
Installation : Wall Mount

Environment

Operating Temperature : 0°C to 50°C (+32°F to +122°F)
Operating Humidity : 5-95% RH, Non-Condensing
Storage Temperature : -20°C to 60°C (-4°F to +140°F)
Storage Humidity : 0-95% RH, Non-Condensing

■ ACCESSORY

Door Phone (2-Wire)

Housed in an aesthetic and stylish package, it provides the much desired security and convenience for any SOHO user. It resembles a normal door bell and serves dual purpose of a phone and a bell.



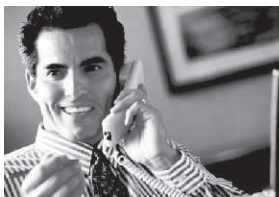
SYSTEM RESOURCES

System Resources	Description	VISIONULTRA			
		206P	308P	412P	616P
Total Ports	Number of User Ports	9	12	17	23
Analog Extensions (FXS)*	To Connect Single Line Telephones	7	9	13	17
Two Wire Trunks (FXO)	To Connect Two Wire Trunk Lines	2	3	4	6
Door Phone Port* (2-Wire/4-Wire)	To Connect Door Phone. 2-Wire Door Phone port can be used as an extension if not used as a Door Phone.	1	1	1	1
Internet Port	Direct Trunk Connection from External Modem for Internet Connectivity	1	1	1	1
Speech Paths	Number of Simultaneous Calls	7	7	7	7
RS232C Port	To Connect to Computer for Programming or SMDR Output	1	1	1	1
Analog Input Port	To Connect External Music Device	1	1	1	1
Analog Output Port	To Connect Public Address System	1	1	1	1
Digital Input Port	To Connect Sensor or Panic Switch	1	1	1	1
Digital Output Port#	To Connect to External Devices like Door Lock or Relay Port	3	3	3	3
Security Dialer	Dials Pre-defined Numbers in case of an Emergency	Yes	Yes	Yes	Yes
Voice Module	To Configure as Auto-Attendant and/or for Recording Voice Messages to be used in other Voice Messaging Applications	240 Sec.	240 Sec.	240 Sec.	240 Sec.
Conference	3-Participants Conference	Yes	Yes	Yes	Yes

* Including 2-Wire Door Phone Port as an Extension #Optional Interface

SMB PRODUCTS FROM MATRIX

PROTON103	1 Trunk Line and 3 Extension Lines PBX
PROTON205	2 Trunk Lines and 5 Extension Lines PBX
PROTON206	2 Trunk Lines and 6 Extension Lines PBX
PROTON308	3 Trunk Lines and 8 Extension Lines PBX
VISION206S	2 Trunk Lines and 6 Extension Lines PBX with Standard Features
VISION308S	3 Trunk Lines and 8 Extension Lines PBX with Standard Features
VISION309P	3 Trunk Lines and 9 Extension Lines PBX with Premium Features
VISIONULTRA206P	2 Trunk Lines and 6 Extension Lines PBX with Premium Features
VISIONULTRA308P	3 Trunk Lines and 8 Extension Lines PBX with Premium Features
VISIONULTRA412P	4 Trunk Lines and 12 Extension Lines PBX with Premium Features
VISIONULTRA616P	6 Trunk Lines and 16 Extension Lines PBX with Premium Features
ETERNITY PE3SS	GSM-VoIP PBX Expandable Up to 24 Ports
ETERNITY PE3SP	GSM-ISDN-VoIP PBX Expandable Up to 24 Ports
ETERNITY PE6SP	GSM-ISDN-VoIP PBX Expandable Up to 48 Ports



ABOUT MATRIX

ISO 9001 Company, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge telecom products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems and Fire Alarm Systems. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of more than 150,000 customers representing the entire spectrum of industries. Matrix has won many awards for its innovative products.



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