



VIDA Select

M/A-COM's VIDA Select is a network solution that provides interoperable communications for up to 24 talkpaths of legacy systems, while also providing an immediate migration path to M/A-COM's OpenSky® voice/data system or P25^{IP} system. These 24 talkpaths can be co-located or distributed over as many as four locations connected by a Wide-Area Network (WAN).



Product Overview

A member of the M/A-COM VIDA product family, VIDA Select allows multiple agencies, radio vendors, frequencies, and protocols to be linked through a common IP network infrastructure. The main VIDA Select unit connects from 2 to 12 different legacy radio systems, while optional Remote Gateway units expand an interoperability system to as many as 3 remote sites and 24 talkpaths.

VIDA Select Components

The primary components of VIDA Select are a voice gateway and the Network Switching Server (NSS). The voice gateway converts analog audio into IP packets and sends the packets to and receives them from the NSS. The NSS makes multiple copies of the voice packets if more than one voice gateway or IP console are involved in the group call. The NSS also hosts the Unified Administration System (UAS), which provides for radio provisioning and talkgroup administration.

A pull-out LCD monitor, keyboard, and trackball mouse for making changes to the UAS database and an uninterruptible power supply for temporary power backup are also supplied. A commercial router and ethernet switch allow for routing to remote sites and connecting customer-supplied PCs.

User-Friendly Controls

NetworkFirst Interop Assist software is included with VIDA Select to provide simple drag-and-drop capabilities to quickly create and remove patches between connected legacy communication systems.

Network Management

An optional Network Manager application is available to provide real-time activity monitoring and fault reporting.

Trunked Voice and Data Migration

VIDA Select can be expanded to support trunked voice and data simply by adding an optional P25^{IP} or

OpenSky RF site. The maximum configuration supported by VIDA Select is 24 interoperability talkpaths with a single P25^{IP} 4-channel site or 4 talkpaths with a single-channel OpenSky site. Up to two V^{IP} Consoles may also be configured with VIDA Select. Contact your M/A-COM sales representative if the desired communication system configuration exceeds these limits.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

OpenSky

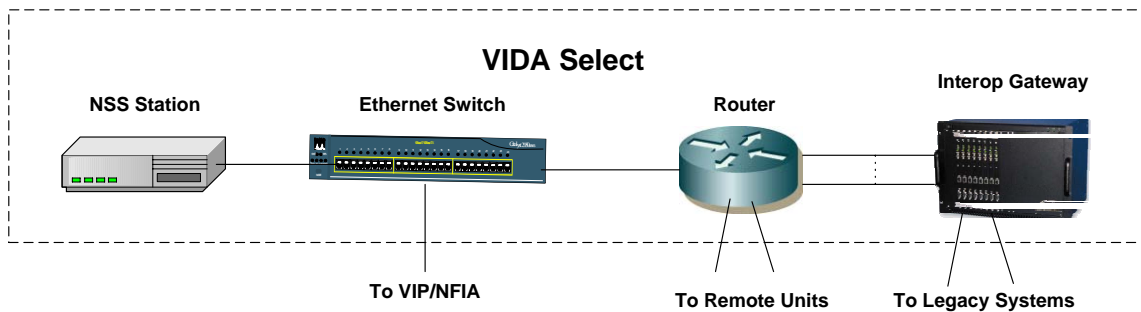
M/A-COM's OpenSky Wireless Private Network is a fully interoperable digital trunked communications network for public safety, utility, federal, transit, and industrial markets. OpenSky is a complete end-to-end Voice over Internet Protocol (VoIP) solution and employs packet technology to provide integrated voice and data. The OpenSky 700/800 MHz radio network is the only private land mobile radio communications system that provides clean integration of data messaging with trunked digital voice on the same RF channel. Integrated voice and data over Time Division Multiple Access (TDMA) allows users to perform multiple communication functions at the same time on one radio. The use of TDMA doubles call capacity by allowing four simultaneous voice calls per 25-kHz channel.

NetworkFirst

Public safety communications in today's world faces unprecedented challenges. More than ever, Homeland Security and Situation Readiness depend heavily on effective communication among federal, state, county, and local agencies. M/A-COM's NetworkFirst answers the call for an emergency communications network that provides local, regional, state, and even nationwide connectivity. NetworkFirst uses cost-effective Internet Protocol (IP) packet switched technologies to provide a fast, cost-effective means of achieving multi-agency interoperability, regardless of radio type, frequency, or mode. NetworkFirst creates the most technologically advanced permanent communications network available in the industry today, providing a technology backbone that is extremely flexible, allowing communications requirements to expand – without a wholesale system changeout.

P25^{IP}

M/A-COM's P25^{IP} (P25 to the power of IP) is the first completely Internet Protocol (IP)-based trunked mobile radio communications system developed for users requiring the secure digital voice and data capabilities of Project 25 (P25). P25^{IP} is part of a portfolio of solutions that M/A-COM offers for wide-area communication systems – each of which is capable of meeting the communications requirements of public safety, public service, and first responders. Within the M/A-COM portfolio, the P25^{IP} network provides an excellent fit for those agencies which require feature-rich secure voice and data communications. P25^{IP} is also particularly appropriate for users operating with non-exclusive VHF, UHF, and 800 MHz frequencies. For federal users, P25^{IP} meets the Congressional and NTIA mandates for the narrowband (12.5 kHz) migration.



General Specifications for VIDA Select Main Unit

External Dimensions (H x W x D):
48 x 24 x 40 in. (122 x 61 x 102 cm)
Rack: Standard 19 in. (48 cm)
Weight: 400 lb (181 kg)
AC Power: 110 VAC nominal, 50-60 Hz, 10.0 Amps maximum

Environmental

Operating Temperature: -22 to +140°F (-30 to +60°C)
Storage Temperature: -40 to +158°F (-40 to +70°C)
Humidity: Not to exceed 95% and relative humidity at 122°F (+50°C)

Interoperability Gateway

Connectors:

DB-15: Isolated audio in/out and Tx/Rx signaling
RJ45: Serial RS-232 interface
RJ11: Telco jack
Tri-colored LEDs: test (Tx/Rx), interface, network

Chassis Interface:

Backplane Connectors: VME

Audio

Audio I/O: Balanced transformer isolated
Line Impedance: 600/10K ohm selectable
Nominal Input Range: -40 to 0 dBm in 1.5 dB steps
Nominal Output Range: -60 to 0 dBm in 1.5 dB steps
Frequency Response: 300 Hz to 3.5 kHz ± 3.5 dB

Communications

RS-232 SLIP or ASCII
Async Mode Data Rate: 38.4 kbps

WAN Interface

T1 or Ethernet

Workstation (minimum configuration)

Sun Blade™ V210 workstation
1.34 GHz UltraSPARC® IIIi processor
1+ Mbyte L2 cache
Four 10/100BaseT Self-Sensing Ethernet Ports

Peripherals:

1 Internal DVD ROM drive
2 USB Ports

System Software:

Sun Solaris™ 9 Operating System, Sybase Adaptive Server application

M/A-COM Wireless Systems

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