

Our innovative solutions provide the best communications possible, without borders, across technologies – despite all challenges.

Product Portfolio



Pro Series

The Pro Series product range is designed to offer maximum capacity, compatibility and flexibility in both rackmount and low profile housings.

Often used in a centralized communications hub or as part of a rapid deployment flyaway communication kit, the rackmount units provide the widest range of connectivity via a modular card-based system and offer redundant power supply options.

The V25 and V50plus provide a comprehensive range of connectivity in a compact design. These units are often used in the field by news broadcasters and government agencies to satisfy a diverse range of communication requirements.



V25

The V25 is a small but powerful multiplexer and router device delivering voice and data with a minimum of overhead cost, space and bandwidth. The unit incorporates a full bridge/router with a full range of network functionality, essential in today's IP-rich environments.

- ▼ Dual 10/100 port network router
- ▼ Dual serial port for legacy systems
- ▼ Dual voice port to connect analog phones (FXS)
- ▼ Optional secure voice module
- ▼ Includes PACE+ voice optimization and PEP data acceleration

V50plus

Ideal for integration into flyaway kits and mobility applications where the power and capability of a larger Pro Series unit is required; but space and power are limiting factors.

- ▼ Dual 10/100 port network router
- ▼ Dual serial port for legacy systems
- ▼ 4 to 16 voice ports to connect analog phones (FXS & FXO)
- ▼ 8 to 16 4-wire ports for connecting radios
- ▼ 1 to 8 ISDN BRI ports
- ▼ Support for PoE
- ▼ Optional secure voice module
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

V150

Offering the optimum combination of modular flexibility and redundancy, this 1RU rackmount device is at home in a fixed rack infrastructure installation or as part of a flyaway rack case. Often used by satellite news gathering trucks or tactical communications vehicles.

- ▼ Supports an extensive range of connectivity options via modular cards
- ▼ Supports up to 3 cards per chassis
- ▼ Includes integrated PSU with optional redundant PSU
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

V200

Suited to central hub-based applications serving Pro Series and BASICS remote units. The 3RU rackmount chassis V200 offers our most comprehensive range of network functionality and connectivity options.

- ▼ Supports an extensive range of connectivity options via modular cards
- ▼ Supports up to 10 cards per chassis
- ▼ Hot swappable PSU cards with option for a redundant card
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

BASICS Series

The BASICS family of products provides the lowest Size, Weight and Power while offering numerous connectivity options. This extensive range of products is ideal for remote locations where small form factor and high port density is critical. Offering connectivity options including telephones, radios, IP and serial enable the customer to create a single unified network regardless of remote device technology.

The BASICS products are available boxed, ready to use, or in a PC104 format for simple integration into third-party systems.



IP Router

BASICS IP Router is a network router, WAN optimizer, PoE Ethernet switch and network security device contained within a single compact product.

- ▼ Network routing for permanent or on-demand connections
- ▼ QoS management and traffic optimization over bandwidth restricted links
- ▼ Reliable transmission of IP-based data, voice and video
- ▼ Optimization of VoIP traffic for bandwidth restricted links
- ▼ Jitter mitigation for better video and voice quality
- ▼ Deployment in SIP-based VoIP telephony networks
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

Radio Relay

BASICS Radio Relay allows the connectivity of traditional push-to-talk and digital radio systems to IP and SIP-based networks.

- ▼ Extend push-to-talk (PTT) services and Land Mobile Radios (LMR) over IP networks - otherwise known as RoIP (Radio over IP)
- ▼ Radio Relay (RoIP) gateway into SIP switches such as Asterisk, Cisco, Avaya and others
- ▼ Acts as a gateway to media servers Motorola WAVE, Intracom VCOM, Mutuallink IWS and more
- ▼ Provides seamless connectivity between radio users and telephone users including landlines and cellular handsets
- ▼ Optional PACE+ voice optimization

Voice

For telephone handsets (FXS) and telephone exchanges (FXO), the BASICS Voice provides a simple-to-use interface for connecting phones to an IP network.

- ▼ Connect conventional POTS telephone systems to modern VoIP systems
- ▼ Voice optimization to ensure clear communications
- ▼ Low bandwidth requirements
- ▼ Secure voice support (STE)
- ▼ Compatible with SIP systems including Cisco Call Manager and Asterisk
- ▼ Optional PACE+ voice optimization
- ▼ Optional router feature key to enable full router capabilities

Hybrid

The BASICS Hybrid is the complete all-in-one solution providing connectivity for a wide range of technologies in a single unit.

- ▼ Satellite-aware integrated router functionality
- ▼ Support for VoIP and SIP-based systems
- ▼ Analog phone connectivity (FXS)
- ▼ Secure voice support (STE)
- ▼ Radio & RoIP support (4W E&M)
- ▼ Serial interfaces (1 synchronous, 2 asynchronous)
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

Multivoice

BASICS Multivoice is a simple-to-use device created for users of Inmarsat FleetBroadband. The unit allows users to connect up to 8 analog telephone devices to the FleetBroadband service.

- ▼ Telephone and exchange support
- ▼ ISDN connectivity
- ▼ Suitable for maritime applications
- ▼ Fully compatible with Inmarsat's FleetBroadband

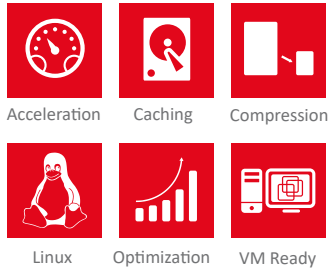
Additional Options

- ▼ Toughbox enclosure – An IP67 ruggedized housing for BASICS PC104 boards
- ▼ Rackmount chassis – Easily rackmount up to 3 BASICS units and provide redundant power

OPUS

OPUS Suite is a family of software products designed to offer the best in network optimization and acceleration. The modular application-based design of the software delivers great flexibility and future scope for a wide range of additional software applications.

The software is fully compatible with standard commercially available computing hardware, and can be embedded into your own platforms via the API and SDK.



OPUS Enhance Module

OPUS enhance allows customers to achieve network acceleration and optimization from a single software solution. Our advanced technology ensures data is transmitted efficiently, voice calls are clear and video transmissions remain smooth and jitter-free. The software unifies our voice optimization and data acceleration technologies into a single solution.

OPUS enhance includes our latest generation of PACE, called PACE+. PACE+ optimizes voice and video traffic, significantly reducing the amount of bandwidth required.

OPUS Secure Module

OPUS secure provides customers with increased levels of security for network traffic. It includes technologies such as secure VPN tunnelling, encryption and NAT traversal. OPUS secure ensures that organizations can be assured that their data and voice traffic remains secure.

OPUS Multi-Bearer Module

OPUS multi-bearer is a smart, rules-based module that interfaces directly with a number of wireless and wired technologies including 3G, satellite, Wi-Fi and Ethernet WAN. Users can define the bearer priority on available criteria, for example link speed or costs. OPUS multi-bearer automatically selects the most suitable bearer based on availability and the customer-defined criteria.

Third Party Embedded Devices

OPUS can be integrated directly into third-party devices including field-deployed equipment, IP cameras, satellite modems and terminals. OPUS includes a range of API / SDK features to enable a rapid route to market for OPUS embedded partners.

OPUS Enhance Module

OPUS enhance allows you to achieve the best in network acceleration and optimization from a single software solution. Our advanced technology ensures data is transmitted efficiently, voice calls are clear and video transmissions remain smooth and jitter-free.

The software unifies PACE+ voice optimization and TCP acceleration technologies into a single solution. The simple-to-use OPUS interface has been designed to reduce training requirements, maximize user experience and be accessible by commonly used web browsers.

Voice and Video Optimization

Our voice and video technology, PACE+ detects, aggregates and optimizes specific traffic types for voice and video. The intelligent technology automatically detects voice and video traffic and applies optimization where required.

- ▼ Reduces voice traffic bandwidth by up to 65%
- ▼ Jitter mitigation for better video and voice quality over high latency links such as satellite
- ▼ Suitable for VoIP calls over wireless networks including satellite, 3G & 4G LTE
- ▼ Compatible with leading telephone system manufacturers including Cisco & Avaya
- ▼ Buffering features can help improve live video streaming clarity

TCP Acceleration for faster downloads

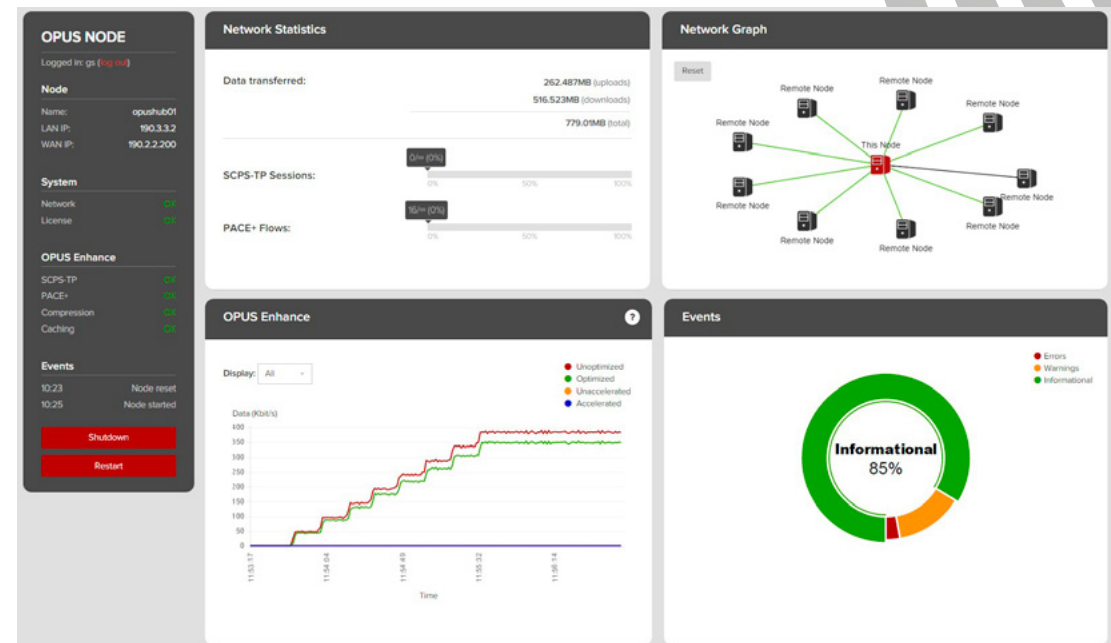
Accelerates data transfers over TCP connections, decreasing download times and improving the user experience.

- ▼ Increases download speeds by up to 10x
- ▼ Industry standard SCPS compatibility
- ▼ Ideal for use over satellite connections

DNS & Web Caching

Improves user browsing speeds and reduces bandwidth.

- ▼ Local database stores most frequent Internet requests
- ▼ Cached information delivered faster to users
- ▼ Reduces bandwidth by using locally cached data for user Internet requests



OPUS SD20

The SD20 is a small but powerful unit, ideal for customers looking for cost competitive, easy to deploy, network optimization. The unit addresses demand for high performance telecoms and networking in high latency, low bandwidth networks, such as satellite and cellular.



OPUS SD20

Compact network acceleration and optimization device for satellite and cellular networks.

- ▼ Ideal device for remote user requiring network performance enhancement
- ▼ Can be used at central site for smaller deployments
- ▼ Comes with OPUS enhance as standard
- ▼ Easily connect between network device and satellite terminal or cellular router
- ▼ Single LAN and WAN ports
- ▼ Little or no user configuration
- ▼ Support for OPUS secure via license key upgrade



Acceleration



Caching



Encryption



Compression



Optimization



VPN Tunnels



ELITE Access / Fusion

The ELITE Access & Fusion are powered by OPUS Suite, offering customers two unique solutions, each engineered to meet specific requirements.

Designed to provide customers with small but powerful mobile communication solutions, both products include an integrated touchscreen and support a wide range of network connectivity options.



ELITE Access

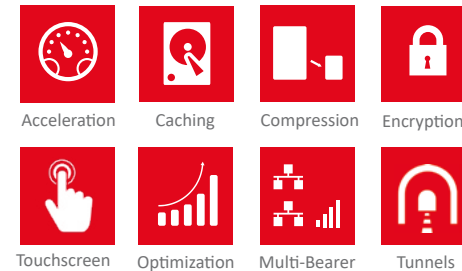
The perfect device for portable secure team communications.

- ▼ Easily connect restricted laptops and computers to public networks for connection to head office
- ▼ Supplied as standard with OPUS enhance, OPUS secure and OPUS multi-bearer
- ▼ Integrated 3G modem and Wi-Fi with internal and external antenna options
- ▼ Externally facing SIM card slot
- ▼ Accessible USB ports for connecting third party devices, such as country specific 4G LTE dongles
- ▼ Dual network WAN ports for connecting to satellite terminals and fixed line internet connections
- ▼ Integrated touchscreen for simple user configuration

ELITE Fusion

The ultimate device for secure portable team communications with support for radio, telephone and computer devices.

- ▼ Connect radios, telephones, laptops, network devices and serial devices securely across public networks
- ▼ Support for wide range of radio manufacturers and frequencies
- ▼ Connect up to two analog and two VoIP telephones
- ▼ Supplied with OPUS enhance, OPUS secure and OPUS multi-bearer
- ▼ Integrated 3G and Wi-Fi
- ▼ Externally facing SIM card slot
- ▼ Accessible USB ports for connecting third party devices such as country specific 4G LTE dongles
- ▼ Dual network WAN ports for connecting to satellite terminals and fixed line internet connections
- ▼ Integrated touchscreen
- ▼ Separates to support government level encryption devices



About Vocality

At Vocality we truly understand the importance of real-time communication and we are steadfastly passionate about improving its quality and efficiency. Our products are created to unify communication platforms, enhance voice quality, increase video performance and improve data throughput.

Since 1995 our UK-based team have been designing and manufacturing products that provide the most efficient ways to communicate regardless of technology, infrastructure or geography.

Today, some of the world's most critical communications rely on Vocality. Our technology allows people, businesses and government agencies across the globe to securely connect with each other in the most unlikely of places.

Our Strengths

Acceleration and Optimization

Acceleration and optimization lie at the very heart of Vocality. For over 20 years we have dedicated ourselves to providing the most efficient networks regardless of infrastructure, technology or borders. Our PACE+ and SCPS technology ensures that voice calls are clear, video transmissions remain jitter-free and data is transmitted efficiently.

Our products are designed to support multiple connectivity types, including low bandwidth, high latency networks such as satellite and radio. Customers report significant efficiency and performance gains with a Vocality-enhanced network.

Security

We fully understand that you want your data to be secure and that levels of security can vary depending on your organization. Vocality solutions are compatible with a wide range of security solutions. These can be embedded directly into our product utilizing the latest IPsec protocols with AES algorithms, or via integration with customer-supplied encryption devices, such as those used in government and military applications.

Unified Communications

Customers often have multiple connectivity types, ranging from fixed line such as ISDN, ADSL and PSTN through to mobile, satellite and

push-to-talk radio systems. This can mean using products from numerous vendors to provide connectivity. Vocality is different and interfaces with all these technologies, providing you with a single managed solution that allows connectivity regardless of location.

Portability

From server rooms all the way through to backpacks, we have a range of solutions designed to provide the lowest Size, Weight and Power possible. We offer both hardware and software-only products allowing our customers to find the best solution to meet their needs.

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