



Key business benefits

- Defends against cyber espionage
- Secures DSL / MPLS / BGAN services
- Facilitates compliance with security mandates
- Certifications for UK & EU government use
- Enables secure home and mobile working
- Protects integrity of control systems
- Eliminates costly dedicated circuits
- Replaces legacy P2P encryptors
- Scalable to very large networks
- Management tools for service providers
- Low cost of ownership

Applicable markets

- Commercial enterprises
- Government and defence
- Diplomatic and intelligence
- NGOs
- Critical national infrastructure (CNI)
- Managed service providers

Ultra Encrypt

Product line overview IP VPN and Remote Access

Organisations across the public and private sectors need to protect their sensitive data, voice and video communications passing over insecure wide area networks. Whether safeguarding national security, financial data or intellectual property, escalating cyber-attacks vividly demonstrate the imperative for strong network security.

The Ultra Encrypt product line enables the deployment of encrypted VPNs (virtual private networks) to ensure the confidentiality, integrity and availability of information in transit. Cryptographic standards are implemented to stringent government assurance levels whilst maintaining the flexibility necessary to operate in today's complex networking environments.

Government-Grade Security

Organisations are increasingly aware of the threats posed by malware; however, as the amount of data passing through perimeter defences and traversing the Internet or other IP networks increases, so does the risk of such data being intercepted or altered without detection. The impact of losing trade secrets, financial data and intellectual property or the potential disruption to critical national infrastructure could be catastrophic.

Stories of cyber espionage are rife in the press, but in reality many attacks probably go undetected.

End-to-End Solutions

Ultra Encrypt can also be integrated with the Ultra Communicate line of products for secure, reliable and efficient transport over multi-bearer communications networks, including wired, wireless, cellular, radio, microwave and satellite networks.

Typical commercial-grade encryption solutions have repeatedly been shown to be vulnerable, leaving corporate networks wide open to attack; thus private sector organisations are increasingly turning to government-grade encryption solutions such as Ultra Encrypt.

The Ultra Encrypt product line encompasses dedicated hardware VPN gateways, hardware and software VPN clients, and specialised management systems. The products are developed and manufactured in the UK to strict government assurance standards (such as CAPS and CPA), are approved for use by the EU Council and NATO, and have been proven in many government and defence networks around the world over a number of years, giving customers a high degree of confidence in the protection they offer.

Ultra Encrypt VPN gateways are dedicated hardware devices that employ advanced encryption techniques, specialised operating systems and self-checking mechanisms – this makes them far more resilient to attack than typical router or appliance-based solutions.

Not only is the encryption strong, ensuring the confidentiality and integrity of the data in transit, but the gateways are secure boundary devices allowing only authenticated inbound traffic to pass, thus preventing attacks against the corporate network behind them.

Operational Cost Savings

A secure IP VPN solution provides significant cost-savings over traditional, point-to-point private circuits. It also

facilitates data sharing, secure remote access and audio/video conferencing capabilities that can drive increased efficiency and productivity whilst reducing real estate overheads, travel costs and environmental impact. Moreover, VPNs help to protect organisations from the direct or indirect financial losses and reputational impairment that can result from security breaches.

By providing government-grade security with unparalleled flexibility and ease-of-use, AEP further strengthens the business case for VPNs by maximising the security benefits whilst minimising the total cost of ownership through:

- Powerful policy management tools simplify initial deployment and subsequent changes with low training overheads
- Fully-centralised key management system, incorporating a full, standalone PKI, eliminates the costs of transporting, handling and storing large volumes of sensitive key material
- Cryptographic data separation enables the sharing of infrastructure and the provision of secure networks as a managed service
- Certificate revocation capability mitigates the cost impact of cryptor compromises or losses
- High availability features reduce the risk of costly downtime
- Broad range of products to cater for networks of all sizes, with upgrade options and inherent scalability to manage network growth affordably

Applications

The following table shows how and where Ultra Encrypt products are typically used today and the key benefits that have been realised.

| Customer Type | Applications | Realised Benefits |
|---|---|--|
| Commercial enterprises, NGOs and critical national infrastructure | <ul style="list-style-type: none"> • Virtual private networks • Secure conferencing • Asset protection | <ul style="list-style-type: none"> • Remote access |
| Government departments | <ul style="list-style-type: none"> • Inter-office communications • Remote working | <ul style="list-style-type: none"> • Government-grade security • Legislative • Flexibility • Ease of use |
| Pan-government intranets | <ul style="list-style-type: none"> • Inter-departmental comms • Application and data sharing | <ul style="list-style-type: none"> • Confidentiality • Cost savings • Business continuity |
| Military and defence | <ul style="list-style-type: none"> • Fixed infrastructure • In-theatre communications • Reverse tunnelling • Remote working | <ul style="list-style-type: none"> • Confidentiality • Increased efficiency • Cost savings |
| Diplomatic and intelligence | <ul style="list-style-type: none"> • Embassy communications • Field operative comms | <ul style="list-style-type: none"> • Confidentiality • Centralised key management • Portability |
| Managed service providers | <ul style="list-style-type: none"> • Secure managed network | <ul style="list-style-type: none"> • Manageability • High availability • Scalability • Low cost of ownership |



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