

AEP Series E Encryptors

Organisations across the Public and Private Sectors need to protect sensitive data across networks. Encryption products designed to meet these requirements must have the appropriate levels of assurance from relevant authorities as well as the functions and features to operate in today's complex networking environments

AEP Series E encryptors provide both data confidentiality and source authentication for network traffic enabling high confidence Virtual Private Network (VPN) communications. Certified by the UK Government's CESG Assisted Products Scheme (CAPS) to Enhanced Grade level and the Ministry of Defence Infosec Products Co-Operation Group, AEP Net products meet the policy requirements of Governments across a wide range of secure systems. Developed from the Government approved models AEP Networks' commercial encryptors afford excellent encryption standards together with the flexibility and ease of deployment expected by enterprise customers.

AEP Series E products come complete with a sophisticated central management platform that minimises key handling and eliminates the need for any local encryptor management. AEP Series E products are designed to integrate into existing networks seamlessly, complementing other network products

The product family includes 100Mb and 20Mb network security gateway encryptors and AEP Networks' E Series Remote, a remote access module designed specifically for organisations that require mobile and home workers to access highly sensitive applications and data over the Internet. The products can be implemented with AEP Networks' Series V communications devices for data transport over multi-bearer comms networks and AEP Networks' Series A application access control appliance for end-to-end security enhancements.

The management platform includes AEP's unique Certification Authority implemented in hardware.



Key Features

- Enhanced Grade IPsec-based IP security gateway for the government market
- High Assurance IPsec-based IP security gateway for the enterprise market
- Approved boundary device – suitable for direct connection to the Internet without the need for a firewall
- VPN operation – separates private and public networks
- Digitally signed certificate requests
- Automatic traffic key management using ISAKMP
- Sophisticated tamper protection and compromise control
- Enhanced Grade IP traffic protection
- Continuous output monitor for cryptographic integrity assurance
- Continuous random number generation checks
- Self-test health check on power-up

Management

Minimal key handling – only at the network centre

- PKI Infrastructure – using AEP Hardware Security Module implemented Certification Authority
- Central control of X.509V3 certificates
- Certificate revocation giving instant “Kill” capability

Network Integration

Both certificate and address-based Community of Interest (COI) management

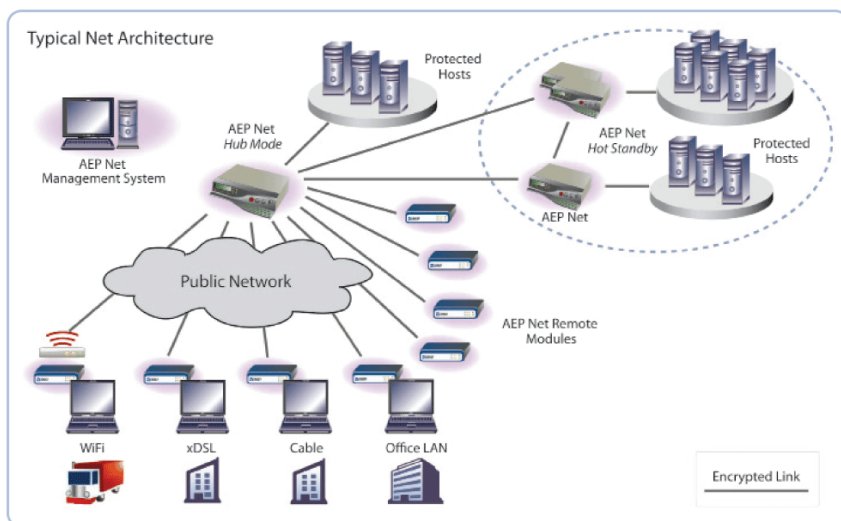
- Public and private interface routing
- In Band SNMP table data
- Acts as a router to the private network and a host on the public network
- Supports up to 2000 Security Associations
- 10 Base-T public and 10/100 Base-T private Ethernet interfaces

- Ethernet wire rate performance, very low latency
- Secure audit and accounting
- Resilience protocol implementation
- Encryptor management cryptographically isolated from network traffic

Suitable for Various Industries and Organizations

Available in different models for applications in:

- UK Government
- EU Government
- International Government
- High Value Financial
- Pharmaceutical & Life Science
- Petrochemical and Other Commercial Applications





AEP Series E Net Encryptors in Action

AEP Net products encrypt and decrypt IP datagrams. The whole of the original packet is encrypted and wrapped in a new packet, using the IP address of the destination encryptor (IPSec ESP tunnelling). The encryptors generate all transport keys and securely exchange them using an asymmetric key exchange algorithm. AEP Net generates its own DSA signing keys to provide source authentication. A Certification Authority is used to certify the public signing key and to issue certificate revocation lists. Protected Host Tables are created, distributed and maintained by the AEP Net Policy Manager.

Cryptographic Functions and Services

- ▶ Enables government business over the Internet and other open networks by protecting sensitive data to an assured standard
- ▶ Can be operated and managed by the customer organisation or by a managed service provider
- ▶ Fully automated key management eliminates administration costs of routine re-keying
- ▶ Encryption at the IP level is independent of the WAN enabling organisations to choose or change the WAN to meet their needs
- ▶ Seamless integration into existing networks
- ▶ Comprehensive GUI-based central management software suite
- ▶ Highly scalable and flexible configuration options to match the network architecture
- ▶ Designed, developed, manufactured and supported by AEP Networks, the only company to have an IPSec encryptor fully integrated with a supporting PKI that is capable of meeting stringent government security standards

Technical Specifications

		20M	100M
Performance	Sustained encrypted traffic throughput †	18 Mbps	160 Mbps
	Simultaneous security associations	2,000	2,000
Physical Interfaces	WAN	10 Base-T	10/100 Base-T Ethernet
	LAN	10/100 Base-T Ethernet autonegotiation (N-way)	
	Serial Port	v24	
Environmental	Temperature	Operating: 5°C (41°F) to 40°C (104°F) Storage: -15°C (5°F) to 65°C (149°F)	
	Humidity	25% - 90% non-condensing	
Physical Dimensions	Height	51mm (2 in)	
	Width	223mm (8.78 in)	
	Depth	244mm (9.6 in)	
	Weight	< 4 Kg (8.82 lbs) including power supply	
Power	100V to 240V, 47 - 63 Hz auto-sensing external inline mains AC to DC converter, 40VA maximum		
Electrical Safety	EN 60950: 199/A2, 1993		
EMC	EN 50082-1, EN 55022 Class B		
MTBF	50,000 hrs based on British Telecom HRD5 standard		

Variants including certification from:



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