



AT-AR011i & AT-AR061 Encryption/Compression Cards

AT-AR011i

Hardware-based encryption/compression card

AT-AR061

Hardware-based encryption/compression card

Hardware Based Data Encryption & Compression

For commercial, banking and financial institutions wanting to link remote networks together, or for remote VPN connections, Allied Telesis MAC and PAC cards offer industry standard levels of high encryption. Classified information from security sensitive applications can be fully encrypted when using an Allied Telesis AR series router or Rapier Layer 3 switch fitted with an encryption/ compression card. Using the latest cryptographic techniques before transmission across the LAN or WAN ensures the integrity and confidentiality of the data.

MAC and PAC cards can be fitted directly into AR series routers and Rapier Layer 3 switches to provide integrated, high performance, hardware-based compression and DES/3DES encryption on all validated PPP and Frame Relay links.

Dedicated 32-bit encryption and compression processors offer high speed, secure encryption and compression without affecting the overall performance of the router or Layer 3 switch. In combination, an extra level of security is added – encrypted data is even harder to crack if it is first randomized by the compression process. In short, Allied Telesis' MAC and PAC-based encryption provides the safest data transmission between networks at the lowest connection cost.

High Speed VPN Encryption

Up to ten times faster than well known software algorithms, Allied Telesis' MAC and PAC-based encryption is fast! Because the encryption is performed on a dedicated encryption coprocessor, the router or Layer 3 switch can maintain maximum VPN speeds even when the CPU is under heavy demand from Stateful Inspection and IPsec rule processing. Up to 1,024 encryption channels can be supported on the AT-AR400 and AT-AR700 series routers, and up to 2,048 on the Rapier Layer 3 switches.

Simplified Network Design

No longer are expensive dedicated link encryptors required for each local or wide area connection. Simply install the MAC or PAC card into your AR-series router or Rapier Layer 3 switch, and all local and wide area connections can be simultaneously encrypted using different cypher keys.

Key Management

Since all wide area traffic passes through a Layer 3 device, this is an ideal place to locate the complex hardware required to provide secure data encryption. In addition, integrating the complex key management procedures into AR-series router and Rapier management systems reduces the cost of supporting an encrypted network.

High Performance

Dedicated hardware provides high speed integrated data compression, thus maximizing the bandwidth available across ISDN and leased lines, while minimizing the impact on the router's or Layer 3 switch's core functions. Allowing more data to be transmitted in a shorter time period, the compression engine frees up bandwidth and decreases ISDN connection charges. Hardware compression is compatible with the software compression supplied as standard on all Allied Telesis routers and Layer 3 switches.

Key Features

- High Speed DES & 3DES VPN encryption
- Network data security through advanced cryptography
- Support for up to 2,048 encryption channels
- Lempel-Ziv data compression hardware
- Multi-channel encryption over Ethernet, ISDN, G.703, Frame Relay, X.25, leased lines & PSTN
- Provision of IPsec
- Encryption for internetworks using TCP/IP, IPX, DECnet (IV) or any bridged protocol

AT-AR011i & AT-AR061 | Encryption/Compression Cards

Dedicated Hardware

- Complete network data security using advanced cryptography
- 56-bit CBC and Triple DES encryption
- Data compression
- Multiple channel encryption and compression

Link Encryption

- Up to 2,048 simultaneous encrypted and/or compressed links
- Encryption for internetworks using TCP/IP, IPX, Appletalk, DECnet or any bridged protocol
- Sophisticated key management for distributed networks
- Available over ISDN, G.703, Frame Relay, X.25, leased lines and PSTN

Payload Encryption

- Creates secure Virtual Private Networks (VPNs)
- Security Associations (SAs)
- Securely connects TCP/IP-based networks
- Intranets and extranets over the Internet
- Available over ISDN, G.703, Frame Relay, X.25, leased lines and PSTN

Data Compression

- Simultaneous data compression for both link and payload encryption
- Compatible hardware and software-based STAC LZS compression
- Software-based Predictor compression
- Compression ratios up to 8:1

Tunnelling

- Generic Routing Encapsulation (GRE)
- Network Address Translation (NAT)
- Layer Two Tunneling Protocol (L2TP)

Secure Remote Management

- Secure shell
- Remote security officer

Product Compatibility

AT-AR011i MAC Card:

AT-AR300 Series, AT-AR410, AT-AR720, AT-AR740

AT-AR061 PAC Card:

AT-AR725, AT-AR745, AT-RP 16f, AT-RP 16fi, AT-Rapier 24, AT-Rapier 24i, AT-8824, AT-8848

About Allied Telesis

Allied Telesis was founded in 1987 and now has offices around the globe, over 2,800 employees and over \$500M of worldwide annual revenue.

The attributes which have led Allied Telesis to achieve its leading position in the enterprise, operator and connectivity business segments can be summarised by four key elements: its business focus on networking technology for professional markets, where Allied Telesis has proved to be the only company capable of providing a total end-to-end solution at a high price/performance ratio; the ability to handle every aspect of its own products from design to marketing; the development of components and solutions which accommodate flexible, efficient and reliable network construction; and support from sound warranty terms and quality services. Allied Telesis connects the IP world efficiently thanks to affordable and highly reliable network solutions. For more information see: www.alliedtelesis.com

Service and Support

Allied Telesis provides value-added support services for its customers under its Net.CoverSM programs. For more information on Net.CoverSM support programs available in your area, contact your Allied Telesis sales representative or visit our website: www.alliedtelesis.com

Ordering Information

AT-AR011i ECMAC

Provides hardware-based DES and 3DES* encryption, hardware-based compression
Order number: 990-12278-00 (Not RoHS Compliant)

AT-AR061 ECPAC

Provides hardware-based DES and 3DES* encryption, hardware-based compression
Order number: 990-11933-00 (Not RoHS Compliant)

* AT-3DES feature license required for 3DES

USA Headquarters | 19800 North Creek Parkway | Suite 200 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesis.com

© 2006 Allied Telesis Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-00475-00 Rev.F