NetCrypt R100 is a ruggedized IP encryptor with operating temperature of up to 55°C. NetCrypt R100 enables the user to leverage on public Ethernet/IP infrastructure to connect to multiple sites in a secure manner. NetCrypt R100 employs AES algorithm for data confidentiality, Secure Hash Algorithm (SHA) as well as Internet Key Exchange (IKE) protocol for integrity protection and user authentication. The built-in Firewall performs packet filtering and supports NAT/PAT features.

Supporting up to 80 tunnels with a maximum encrypted throughput of 100Mbps, NetCrypt R100 is ideal for deployments as a security gateway in mobile vehicle, outdoor deployment, corporate LANs, site-to-site VPN and site-to-site wireless inter-offices connectivity.

NetCrypt R100 is interoperable with NetCrypt series of IP encryptor, allowing user to form a secure VPN between the corporate HQ and remote sites/branch offices. With the flexibility to use industry standard Simple Network Management Protocol (SNMP) network management system, NetCrypt R100 allows local and remote monitoring of devices, and firmware field-upgrading to ease new features introduction, algorithm updates and maintenance.

**Key Features**

- High-assurance IP encryptor with firewall capabilities
- 100Mbps throughout aggregate
- IPSec standards-based encryption, authentication, digital certificates and key management
- Supports AES algorithm for data confidentiality
- Supports 80 concurrent IPSec tunnels
- Easy deployment in existing network
- Ruggedized and suitable for outdoor deployment
### Specifications

| Network Interfaces                  | Trusted LAN 1 and Trusted LAN 2 ports: 2 x Ethernet RJ45 10/100/1000 Mbps auto-sensing port  
|                                      | External port: 1 x Ethernet RJ45 10/100/1000 Mbps auto-sensing port |
|                                      | Support Layer 2 and Layer 3 encryption capability  
|                                      | IP Compression  
|                                      | QoS support  
|                                      | Traffic flow confidentiality |
| High Availability Features          | Failover (Active/Passive mode)  
|                                      | Load balancing (Active/Active Mode)  
|                                      | Priority Based Redundant Secure Nodes |
| Authentication                      | Pre-shared Key  
|                                      | RSA Public Key Signature (up to 4096 bit) |
| Key Management                      | Support Internet Key exchange (IKE v2)  
|                                      | DH supports up to 8192 bit  
|                                      | Supports ECDH (up to P-521 bit)  
|                                      | Group Transport Protection: The device has the option of providing encryption and data integrity protection to all key exchange traffic including the initial key exchange traffic |
| Encryption Algorithm/Modes          | AES-CBC (256 bit) |
| Hash Algorithm                      | HMAC-SHA1  
|                                      | HMAC-SHA2 (256, 384, 512 bit) |
| Performance                         | Zero-loss encrypted throughput up to 100Mbps (depending on IP packet size and used encryption mode)  
|                                      | Support 80 concurrent IPSec tunnels |
| Management                          | Interfaces:  
|                                      | - 10/100/1000 Mbps Ethernet RJ45 (remote management and local configuration)  
|                                      | - RS232 local console interface  
|                                      | Security/Configuration:  
|                                      | - Extensive audit logging  
|                                      | - Alarm detection and logging  
|                                      | - SNMP v2c network management  
|                                      | - Supports up to 3-factor authentication |
| Security Features                   | Tamper-resistant chassis  
|                                      | Anti-tamper detection and response |
| Physical Characteristics            | Dimensions: 44mm(H) x 420mm(W) x 285mm(D) (Rack mountable)  
|                                      | Power Supply: External 18-32VDC, 100-240VAC Adaptor, 2.2A 50/60 Hz (60W nominal) |
| Environmental                       | Operating Temperature: -10°C to +55°C  
|                                      | Storage Temperature: -20°C to +70°C  
|                                      | Humidity: 95%, non-condensing |
| Induced (Mechanical) Environment    | Vibration: IEC 61373 @ 1999  
|                                      | Shock: IEC 60068-2-27 @ 2008 |
| Regulatory                          | EMC/EMI: FCC Part 15 Class B |
| Optional Feature                    | Supports customized algorithm loading feature |

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