



THALES



Mistral Gigabit

Very high speed secure VPN IP solution for sensitive networks

Product Highlights

- > Very high capability IP encryptor designed for the protection of high-speed sensitive applications (Computing Centres, Data Centres, Unified communications, ...).
- > Centralized secure management, simple and independent of the network management.
- > High quality keys generated by a Hardware Security Module.
- > Ease of integration and use, regardless of the network architecture.

New IP network capabilities reach speeds up to 1 Gbps.

In order to address this need, Thales has expanded its Mistral line with the Gigabit version. Mistral Gigabit improves production efficiency and flexibility.

All IP network features remain available while Mistral Gigabits provides the highest level of security services (authentication, confidentiality, integrity...).



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Key features

Encryption	AES block encryption algorithms. 128 or 256 bits keys (high quality random numbers). Configuration in IPSec tunnel mode (RFC 2401 / RFC 2406). Fast Forward mode (only encrypts the IP or TCP payload).
Services	Authentication, access control, confidentiality, integrity and replay protection.
Filtering	Source / destination IP address filtering. TCP/IP Protocol and port filtering. Security event alarm. Key lifetime and cryptoperiod control.

Performance characteristics

Tunnels	Up to 6,000 simultaneous VPN.
Speed	1 Gbps full duplex.
Protocols	Transparent to TCP/IP upper protocols. Compliant to redundancy protocol (HSRP, VRRP) without taking the Mistral offline. VLAN 802.1Q compliant.

Administration

Management	Secure and centralized management by Mistral Management Centre.
Monitoring	Monitoring of equipment status and tunnel activity. SNMP network monitoring.
Configuration	By secure file, by management centre or by console. Local zeroization: sensitive parameters erased from a Mistral product for its transportation or maintenance. Audit and security alarms. Over-the-network secure software upgrade from the Mistral Management Centre. Management processes are adapted to small or large deployments.

Interfaces

Console port	1 RJ 45 (RS-232C)
Plain-Text	1 RJ 45 (10 Base TX, 1000 Base TX) + 1 in fail-over
Cipher-Text	1 RJ 45 (10 Base TX, 1000 Base TX) + 1 in fail-over

Certification

Common Criteria to the EAL3+ level
Mistral Gigabits is certified to protect information classified.
DIFFUSION RESTREINTE France, NATO RESTRICTED and RESTREINT UE.

Environmental

Power	115/230 Volts, 50/60 Hz 200 W
Operating temperature	+5°C to +40°C (41°F to 104°F)
Storage temperature	0°C to +70°C (32°F to 158°F)
Humidity	5% to 95% (non-condensing)
Reliability	45,000 Hours Mean Time Between Failure (MTBF)(GB, 25°C)
Conformity	RoHS CE/FCC/UL certified

Mechanical

Format	19", 1U
Dimensions	44 mm H x 443 mm W x 393 mm D (1.73"H x 17.44"W x 15.47"D)
Weight	7 kg (15.432 lbs)

Thales internal reference TRC 7539-11

Mistral product line:

- Mistral products secure IP networks up to 1 Gbps speed.
- Mistral Nomade enables organizations to establish end-to-end, encrypted VPN tunnels for mobile employees.
- The Mistral Management Centre performs remote and centralized management of Mistral network security products.
- The trusted and autonomous Key Generator Centre generates cryptographic keys.