RedPort™

OPTIMIZER
NSD

For Inmarsat Fleet XPress

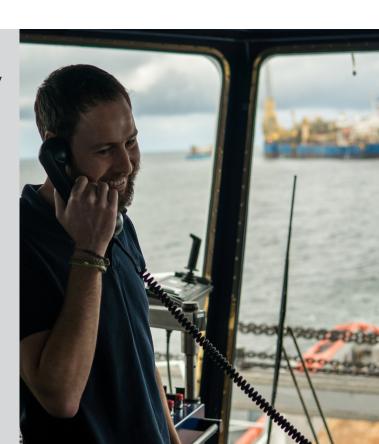# Introducing the RedPort Optimizer NSD

The **RedPort** **Optimizer** NSD is the world's first device that combines the Inmarsat Fleet Xpress Network Service Device (NSD) with the RedPort Optimizer Enterprise satellite router and VoIP gateway. Optimizer Enterprise NSD is an all-in-one solution that replaces complex installations with a single rackmount appliance to manage ship networks with satellite broadband routing, VoIP connectivity, and crew services.

The Optimizer NSD includes a software-based NSD to manage the Inmarsat Global Xpress Ka-band and Fleetbroadband L-band networks. Operating on a high-powered hardware platform, the networks are supported with the RedPort Enterprise suite of services for ship operations and crew welfare.

RedPort Features Include:

- **Firewall and web filtering**: Control features for every aspect of network management for maximum performance.
- **Satellite Routing**: Multi-WAN configuration for failover, OBM and least cost routing, with different rules based on selected network.
- **Fleet-based shore-side portal**: enables network managers to create and manage settings on a fleetwide basis from a single portal.
- **VoIP**: Multi-VoIP, Prepaid & postpaid, low-bandwidth, high-quality, high efficiency.
- **Email**: Powerful business email with onboard server and high efficiency.
- **Cyber Security**: Powerful spam and malware detection and removal.
- **Vessel tracking**: for precise locations and operational awareness.

White-label Customized NSD

RedPort is committed to offering the customization of an NSD required by a Distribution Partner or Service Partner business case, to enable a white-label hardware platform to support services, apps, or a hosted third-party solution.

Hosted Applications

Businesses who are application providers understand that owning the infrastructure on which the applications are hosted can be time consuming, complex and expensive. RedPort provides enterprise-grade customers and suppliers alike customized platforms to host their applications meeting business and end user needs.

Optional Crew Services Include:

- **Web Browsing**: Controlled web browsing with domain filtering and blocking of unwanted data, prepaid and free allowances.
- **Chat**: Access control of Facebook Messenger, Line, WhatsApp, WeChat, Viber, Kakao, Hi Chat & more.
- **SMS:** 2-way global SMS with international and local gateways in the Philippines.
- **Crew Mail:** Private low-data consuming email accounts for the crew with webmail access.
- **Media:** E-learning server, Se@MeNow social networking, low-data games..
- **Announcements:** Vessel or fleet wide notifications sent directly to crew devices
- **News and Sports:** International and local headlines and daily sports updates.

Specifications & Support

Enclosure	19" 1U Rack
Dimensions [W x H x D]	485mm x 44mm x 405mm
CPU Model	7nd Generation Intel® i7-7700T 4 Core / 8 Treads 2.9Ghz
CPU # Cores	4 Core / 8 Treads
CPU Frequency	2.9Ghz / 3.8Ghz max turbo
CPU TDP	35W
CPU Cooler	Active cooler for CPU up to 95W
Memory	24GB (288Pin DDR4 2133 UDIMM)
Storage	M.2 SATA III 512Gb Solid State Drive with advanced global wear-leveling and block management for reliability
Ethernet Ports	8x GbE [Intel® I210-AT] with two segments LAN 1/2 & 3/4 configurable bypass + 4x GbE [Intel® i350-AM4]
Power Supply Type	Integrated Bicker BEH-530H with standard 3-pin C14 socket
Power Supply Input	AC 90~264V AC @ 47Hz~63Hz
Power Supply Specifics	300W high efficiency (up to 91%) Designed for continuous 24/7 operation
Console Cable	USB to Serial RJ45 Console cable
Regulatory Compliance	FCC part 15 Class A, CE, Rohs
Optionsl	
Telephone Port	4x FXS telephone port
Memory	32 GB Ram
Storage	1T SSD
Ethernet Ports	4x additional ethernet ports or a total of 16

World Class Support

RedPort hardware and services are reliable and straightforward to use in operation. However, each installation is different, and the very nature of networks is that they can be complex. RedPort technical support provides dealers and end users the confidence of knowing that they have a direct line to the company that developed the products.

RedPort Global offers remote email and live technical support by contacting a team member directly at support@redportglobal.com or calling +1.865.379.8723 to report an issue.

Warranty

RedPort hardware is warranted for a period of 12 months, with the option of purchasing extended limited hardware warranty coverage. If the product malfunctions within 12 months of purchase the product is eligible for RMA (Return Material Authorization) replacement or repair at the manufacturer's discretion.

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