



NoSaCo® Rack

Multi-purpose, rack-ready
satellite communication system

KEY FEATURES

Light-weight, easily transportable system

Pre-configured “out of the box” network and access control

Cost-efficient communication terminal for disaster relief or network backup

System convertible with rack integration

Security concepts to protect sensitive data and service resilience

REFERENCES

Ministry of Foreign Affairs, Luxembourg
www.emergency.lu

emergency.lu

MULTI-PURPOSE, FLEXIBLE TERMINAL FOR BROADBAND COMMUNICATION OVER SATELLITE AND LOCAL AREA NETWORKS

The NoSaCo® Rack is the ideal solution for humanitarian response teams, European civil protections or other long term deployments requiring in-field broadband internet access during disaster relief or on remote sites.

The NoSaCo® Rack is deployed for emergency.lu as an end-to-end solution in conjunction with ranger and disposable 2,4 m C-band antennas. A waterproof modem has been directly mounted on the antennas to keep the RF-cable length at a minimum. As a result, the included 12 m network cables can be used to place the NoSaCo® Rack under shelter, while the modem and antenna remain outside. The deployment kit offers high performance two-way communications providing up to 8 Mbps bandwidth (based on beam setup) for data, video and voice transmission.

The terminal is pre-configured and offers “out-of-the-box” network, security, quality of services and access control. It has been developed to allow fast and user-friendly on-site installation. The components arranged therein have been selected with focus on reliability and durability. NoSaCo® Rack uses a revolutionary design able to resist shocks and adverse temperature conditions (0-50°C), optimized for transport and shipping.

The terminal is integrated with a community-based, field-proven mission critical information system Pulse™ Core. Complemented with the mobile application Pulse™ Reporter, Pulse™ EcoSystem allows reliable and secure sharing of commands, positions, visual and sensor data during a mission.



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SYSTEM CHARACTERISTICS: NoSaCo® Rack

TERMINAL CONNECTIONS

- 1 x Ethernet for external access point
- 1 x Internal Wireless LAN access point (802.11 b/g/n)
- 2 x Ethernet for BUC/Wider
- 1 x Ethernet for data
- 1 x Ethernet for voice
- 1 x Ethernet for modem
- 1 x Ethernet for local ISP
- 2 x USB

ANTENNA FRONTEND

- Antenna types: Ranger 2.4 m or Disposable 2.4 m
- Frequency band: C-band
- Receive frequency: 3.625 - 4.200 GHz
- Transmit frequency: 5.850 - 6.425 GHz
- BUC: 40W, 60W or 80W C-band

MONITORING & CONTROL

- Emdedded monitoring & control for BUC
- Monitoring of satellite modem via web interface
- Full compatibility with Pulse™ Core
- Real-time monitoring
- User-friendly, graphical user interface
- Sunlight readable LCD display
- Embedded temperature and humidity sensors
- Quality of Service (QoS) monitoring
- Tunnelling to interconnect with remote branches
- Dynamic routing



MODEM

- Forward modulation: DVB-S2 (QPSK, 8PSK, 16APSK)
- Return modulation: MF-TDMA 2D-16 (BPSK, QPSK, 8PSK)

ELECTRICAL

- Power supply: 100 - 240 VAC~ 50 - 60 Hz (max 10A)
Full redundancy (*)
- Power consumption: max 400 W

ENVIRONMENTAL

- Temperature: 0 to 50 °C
- Humidity: 20 to 80 % non-condensing
- Sealing class: IP21

PACKAGING

- Number of cases: 1 x Portable protection case (with lids)
- Weight of NoSaCo® Rack: 21.5 kg (with covers and accessories)
- Total weight of the kit: 550 kg (incl. 7 boxes for antenna)

BANDWIDTH

- Use policy: Dedicated bandwidth
- Bandwidth: max 4 Mbps symmetric

END DEVICES & ACCESSORIES

- 2 x WiFi VoIP phones SpectraLink® 8440
- 1 x Analogue telephone adapter
- 1 x Cisco® indoor access point
- IP68 hardened power, network and RJ11 cables



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