

NOSACO® RACK

**MULTI-PURPOSE, RACK-READY
SATELLITE COMMUNICATION SYSTEM**



HITEC

LUXEMBOURG



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.

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

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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

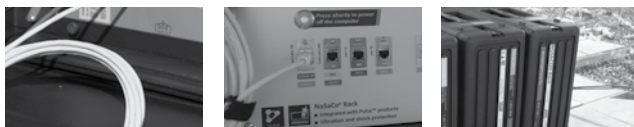
- Number of cases: 1 x Portable protection case (with lids)
- Weight of NoSaCo® Rack: 21.5 kg (with covers and accessories)
- Total weight of the kit: 550 kg (incl. 7 boxes for antenna)

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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