



## NoSaCo® Rapid

Rapid response and heavily rugged broadband terminal

### KEY FEATURES

Light-weight, easily transportable system

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

Robust & rapidly deployed

Waterproof solution for adverse environmental conditions

Fault tolerance thanks to complete electrical redundancy

Optimized to resist shocks and vibrations

Security concepts to protect sensitive data and service resilience

### RAPID DEPLOYMENT, HEAVILY RUGGED SATELLITE TERMINAL FOR BROADBAND COMMUNICATION OVER SATELLITE AND LOCAL AREA NETWORKS

The NoSaCo® Rapid is the ideal solution for rapid response usage on remote sites where immediate broadband internet access is required.

The satellite terminal has been developed for outdoor usage to allow fast and user-friendly installation in adverse conditions. The components have been selected and arranged to survive commercial transport without damage. In case one of the electrical components inside the terminal has been damaged, operation is still possible thanks to the redundancy thereof. Thus, the NoSaCo® Rapid can be considered as the backbone of emergency operations.

The NoSaCo® Rapid offers high performance two-way communications providing up to 8 Mbps bandwidth (based on beam setup) for data, video and voice transmission. It is used in the rapid deployment kit by emergency.lu as an end-to-end solution with an inflatable GATR antenna for disaster relief operations. The kit can be deployed in less than 30 minutes by trained personnel.

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.

### REFERENCES

Ministry of Foreign Affairs, Luxembourg  
[www.emergency.lu](http://www.emergency.lu)

**emergency.lu**

“Prix de l’Innovation” 2012 awarded by Fedil  
(Luxembourg Industry Federation - [www.fedil.lu](http://www.fedil.lu))



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# SYSTEM CHARACTERISTICS: NoSaCo® Rapid

## TERMINAL CONNECTIONS

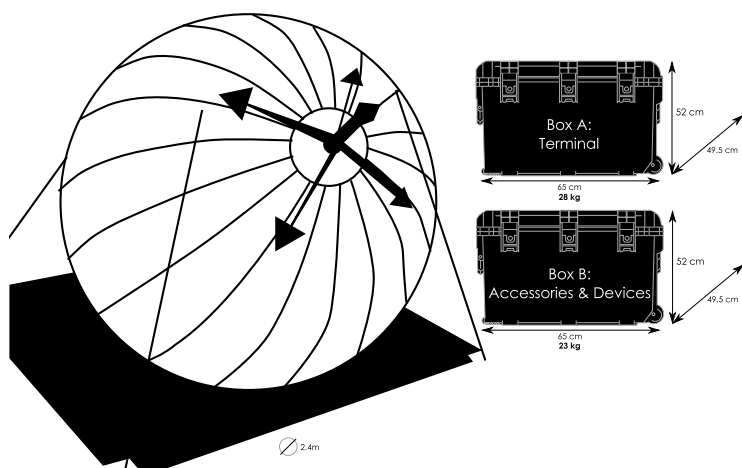
- 1x Ethernet for external access point
- 1 x Internal Wireless LAN access point (802.11 b/g/n)
- 1 x Ethernet for BUC/Wider
- 1 x Ethernet for data
- 1 x Ethernet for voice
- 1 x Ethernet for modem
- 1 x Ethernet for local ISP
- 2 x USB

## ANTENNA FRONTEND

- Frequency band: C-band
- Reflector aperture: 2.4 m
- Fixation: Anchor spikes / Weights
- Receive frequency (Rx): 3.625 - 4.200 GHz
- Transmit frequency (Tx): 5.850 - 6.425 GHz
- EIRP: 56 dBW with 40 W BUC @midband
- Pointing: Manual point and align

## MONITORING & CONTROL

- Embedded 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
- Tunneling 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 750 W

## ENVIRONMENTAL

- Wind (operational): 65 km/h
- Wind (survival): 95 km/h
- Temperature: -20 - +60°C
- Humidity: 20 - 100 % (condensing)
- Sealing class: IP44

## PACKAGING

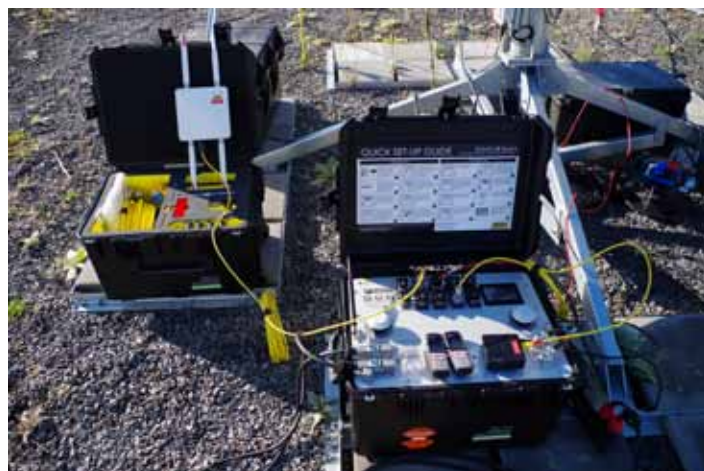
- Number of cases: 1 x Terminal case (NoSaCo® Rapid)  
1 x Accessories case  
5 x Antenna cases
- Total weight: 28 kg for terminal  
23 kg for remaining cases

## BANDWIDTH

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

## END DEVICES & ACCESSORIES

- 6 x WiFi VoIP phones SpectraLink® 8440
- 2 x Analogue telephone adapter (ATA) Linksys SPA2120
- 1 x Toolbox
- 1 x GPS antenna
- 1 x Outdoor Access Point
- IP68 hardened power, network and RJ11 cables



## CONTACT

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