



NoSaCo® Rapid

Rapid response and heavily rugged satellite communication system

KEY FEATURES

Complete system set-up in less than one hour

Maximum protection of hardware components based on rugged system design

Integrated middleware ensuring a maximum exploitation of satellite bandwidth

Worldwide satellite coverage providing broadband IP-over-satellite connectivity (*)

User-friendly deployment, low maintenance and remote monitoring

Pre-configured, ready-to-use end devices for voice communication

Security concepts to protect sensitive data and service resilience

DISASTER RELIEF OPERATIONS REQUIRE RAPIDLY INSTALLED, RELIABLE SYSTEMS: NOSACO® RAPID IS DESIGNED TO SUPPORT CRITICAL MISSIONS WORLD-WIDE(*)

NoSaCo® Rapid is a communication and coordination tool used in crisis situations. The terminal is relying on Satellite IP connection and establishes a performing internet connectivity. The worldwide satellite coverage based on C-band allows deploying the system globally.

NoSaCo® Rapid provides a temporary wired or wireless Internet access in remote sites or in regions where no communication infrastructure is existing and advanced service provisioning like analogue and digital voice communication, sensor monitoring and video streaming is required. The terminal is designed to answer the needs of humanitarian agencies and first responders. The terminal is equipped with an inflatable antenna (2.4 meter aperture). This system concept allows for convenient transportation and does not require any specific logistic arrangements. All system elements are protected against environmental factors, like wind loads, temperature, dust and humidity.

The terminal is also available for operation within Ku-band frequency and is part of the NoSaCo® product family. Other solutions of the product family are the NoSaCo® Compact, a flexible and modular communication system, and the NoSaCo® Regular, a high-performance systems for long-term missions.

(*) Depending on capacity provisioning

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SYSTEM CHARACTERISTICS: NoSaCo® Rapid

ANTENNA FRONT END

Frequency band:	C-band (Ku-band on client request)
Reflector material:	Flexible conductive composite fabric
Reflector aperture:	2.4 m
Fixation:	Anchor spikes / Weights
Polarization:	Circular
Receive frequency (Rx):	3.625 - 4.200 GHz
Transmit frequency (Tx):	5.850 - 6.425 GHz
EIRP:	59.1 dBW with 80 Watt BUC
Pointing:	Manual point and align
Interfaces to terminal:	5 meter (50 Ω) N-connectors

TERMINAL INTERFACES

2 x RJ45 (Ethernet for IP connections)
1 x Wireless LAN (802.11 b/g)
4 x FXO analogue voice input
2 x FXS analogue voice output
1 x E1/T1 digital voice in-/output
1 X Console access to router
1 x Console access to modem
1 x USB for GPS connection
1 x Local ISP input
1 x Service Switch

MONITORING & CONTROL

Real-time, central and local monitoring
User-friendly, graphical user interface
Sunlight readable LCD display
Embedded temperature sensors

BUILT IN COMPONENTS

Router / Switch with 3G backup capability (*)
Satellite modem
Fanless, ruggedized and powerful PC

INCLUDED SERVICES

Information management & synchronisation service with:

- Map distribution and annotations
- Tracking & Tracing of people and equipment
- Document / Picture sharing
- Sensor service integration
- Alerting features
- Full API for further client-specific integration

MODEM

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

ELECTRICAL

Power supply:	100 - 240 VAC~ 50 - 60 Hz (max 10A) Full redundancy
Power consumption:	max 600 W plus 900 W (antenna & BUC)

ENVIRONMENTAL

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

PACKAGING

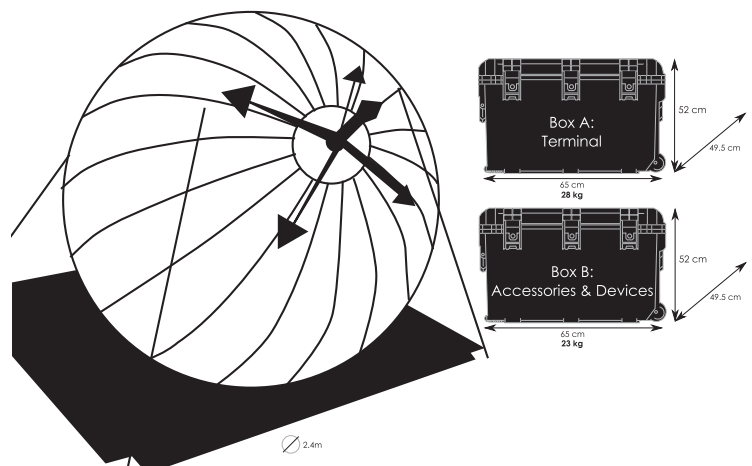
Number of cases:	1 x Terminal case 1 x Accessories case 5 x Antenna cases
Total weight:	max 180 kg

BANDWIDTH

Use policy:	Dedicated bandwidth
Bandwidth:	max 4 Mbps symmetric

END DEVICES & ACCESSORIES

6 x Wireless VoIP phones SpectraLink® 8400
2 x Analogue telephone adapter (ATA) Linksys SPA2120
1 x Toolbox
IP68 hardened power, network and RJ11 cables
1 x GPS antenna
1 x Cisco® WiFi Access Point



(*) SIM card not provided

Antenna type used for emergency.lu. Other antenna types available on request.

CONTACT

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