# SINORA
## MORE THAN A SIGNAL



SNR SOLUTIONS
**portable,
field solutions**

# SNR

*SNR stands for signal to noise ratio, a concept that has inspired Sinora and finds its best expression in the SNR® logo.*

SNR® is a registered trademark for all of Sinora's professional, specialist solutions. From telecommunications to video surveillance, from software applications to the services offered, SNR® is the symbol that identifies and guarantees the design and creation of solutions and products for Sinora customers.

This brochure illustrates the company's product portfolio and solutions that have been designed and implemented on the basis of specific requirements and can however meet the technological needs of different users, in any operating context. The SNR® line has been designed and developed to overcome the space-time concept and ensure high performance in stationary or field situations, in a fixed or portable form: our customers' needs and ideas that have been developed in several sectors, including mission critical solutions, public administration, manufacturing, logistics, transport, event management and hospitality.

SNR® solutions are the new signal to noise ratio: "proximity signal" on the vertical needs and "market noise" aimed at customer satisfaction.

## Soluzioni SNR®
*make idea*

# Centr.O *Portable operations center*

## CENTR.O

### *Integrated portable operations center for all-in-one emergencies.*

The field operations center is a ready-to-use solution designed by Sinora.

*Intended for first aid activities, CENTR.O has been developed following indications from Civil Protection operators who have requested a product that can meet the need to get to the emergency site, open the container, switch on the PC, and connect to the radio network.*

A sturdy ABS transport case contains feeder, battery, Motorola Solutions DMR or TETRA radio/s, HD monitors and personal computer equipped with control unit software.

To help the operator, two speakers and a high-quality audio mixer have been set up to manage the voice and volume of the radios and notifications from the operations center.

The personal computer (noteobook/laptop) is supplied according to the specific requirements of the on-board control unit software and hardware configuration. Thunderbolt 3 connection is required for it to be managed through the included docking station.

The battery charger feeder can recharge the batteries inside the case and power PC, displays, assembled radios and router. When AC power is

not available 860 Wh LiFePo4 battery guarantees power supply to the whole hardware set for at least 4 hours of active use.

The personal computer is supplied according to the specific requirements of the on-board control unit software.

The battery charger feeder can recharge the batteries inside the case and power the personal computer, the monitors and the assembled radios.

*(Italian name deriving from: **Centr**ale **O**perativa mobile).*

## Civil Defence, Red Cross, Defence, Fire Brigade

## OPTION

| | |
|---|---|
| CENTR.O. SWAP | All-in-one portable operations center with UniqueSWAP software |
| CENTR.O. TRBOnet | All-in-one portable operations center with TRBOnet software |

## FEATURES

| | |
|---|---|
| Assembled radios | DMR DM4000e series TETRA MTM/MXM series |
| Power supply | 12 VDC / 220 VAC |
| Backup battery | ~4 h |
| Case | Shockproof trolley and handles Hermetic on request |
| Connections | 4x  USB type A /  Ant. RTX Nf / RJ45 WAN |
| Main color | black and Sinora grey |
| Monitor | 2 x 22" 16/9 HD |
| Computer | Notebook/Laptop Windows based |
| Software | UniqueSWAP or TRBOnet |
| Dimensions H W D (mm) | 234 x 1199 x 419 |

Self-locking side handles;

Portable with trolley;

Spring hinges and locks;

Radio options: 2 x DM4000e / 2 x MTM5000-MXM600 / 1 x DM4000e + 1 x MTM-MXM;

4G/LTE router + Wi-Fi with included antennas;

Battery charger feeder 220 V / 12 V;

LiFePo4 860 Wh Backup battery;

VDE socket;

CO multi-USB socket;

2 x Aerial N sockets;

Monitor for the dual option;

Notebook/laptop;

# BAGStation

# Transportable base station

*BAGStation represents a dynamic solution intended for field communications in emergency situations or occasional operations such as temporary events or demonstrations.*

The base station is assembled inside an IP67 shockproof tactical case. Connections are located on the inner front panel in such a way that the case remains watertight.

The radio transceiver or repeater radio, the power supply battery charger and the backup battery are housed inside.

Radio controls are operated directly on the faceplate of the apparatus, and RTX features are defined by the apparatus used. On the faceplate are the 220V / 12 V power supply connector, the antenna connector, and the GPS and USB connectors, which are useful for configuration as an operations center operation. In fact, a notebook with the UniqueSWAP or TRBOnet Command and Control system allows the base station to be transformed into the radio interface of the system in use by the Customer.

The container is complete with transceiver equipment (DMR radio, TETRA or digital repeater), power supply, battery and handheld microphone.

BAGStation is a product used in emergency contexts, within operational sites or for monitoring maintenance and inspection activities. Particularly suitable for Civil Defense, Military agencies involved in Emergency Response event organizers or renters of electronic equipment.

Resistance to impact, corrosive substances water, dust and weather;

Self-locking top handle;

Neoprene seal gasket;

Pressurization valve;

Padlock provision;

Native for Motorola Solutions radios and Kairos Radio Activity repeater.

## VERSIONS

| | |
|---|---|
| BAGStation | Motorola Solutions RADIO |
| BAGStation K | Kairos Repeater |

## OPTIONS

Base station only;

Configuration for CO;

Notebook with operations center;

Motorola Solutions radio (DM or MTM);

Kairos repeater.

## ACCESSORIES

| | |
|---|---|
| Bag | Shoulder strap; Trolley; |
| Radio | All radio accessories; External antenna; |

## FEATURES

| | |
|---|---|
| Radio | DMR DM series TETRA MTM series Kairos Radio Activity |
| Frequency | VHF / UHF |
| Power supply | 12 V / 220 V |
| Battery | 12 Ah |
| Case | Shockproof Waterproof Trolley, handles and/or shoulder strap |
| Connections | USB / Audio / Mic Ant. RTX N / GPS |
| Main Color | Black and Sinora Gray |
| Weight | 12 ~ 24 kg |
| Dimensions  H W D (mm) | 417 x 298 x 247 |

**BAGStation K**

# BAGStation CRI - Italian Red Cross BAGStation

# Portable Italian Red Cross base station

*Airtight portable base station dedicated to the Italian Red Cross. The solution has been designed based on the national Italian Red Cross DMR and analog specifications.*

Available for MOTOTRBO™ 4000 series radios, it has been specifically designed for use as a portable analog and DMR base station created based on the recent technical specifications approved by the Italian Red Cross.

With 220 VAC and/or 12 VDC power supply, the station is equipped with an accessory battery, also available in an external portable case. All radio connections (RF aerial, GPS aerial, USB, and microphone) are available in special airtight quick-coupling connectors, in order to facilitate field operations in scenarios where high reliability and operational efficiency are required.

The radio is assembled tilted at an angle from the base for better field use.

## OPTIONS

Battery in an additional bag with 12 V
rechargeable accumulator and 120/130 VA
battery charger power system. On the front
panel there are electrical grid connections
and supporting connections for the Italian Red
Cross BAGStation case:

4000 series DMR radio;

Palm microphone with keyboard;

L-shaped table microphone.

## FEATURES

| | |
|---|---|
| Radio (basic) | DMR DM series |
| Frequency | VHF / UHF |
| Power supply | 12 V / 220 V |
| Case | Airtight shockproof |
| Main color | Orange/black |
| Weight | 2 ~ 24 kg |
| Dimensions H W D (mm) | 305 x 270 x 194 |

# ST.RI.T - Portable repeater station

*Portable repeater stations are a series of field solutions designed and developed over time by Sinora. The series is available in single-site or multi-site versions with LTE link and remote control.*

ST.RI.T. offers improved performance, productivity and value through digital technology, which provides higher capacity and frequency spectrum efficiency, integrated data communications and advanced voice communications.

ST.RI.T. is ideal for organizations and professionals who need a strategic field solution, such as the Civil Protection, the Army and the Italian Red Cross, or in any case for temporary allocations.

ST.RI.T. offers a solution based on ETSI standards (DMR or analog), suitable for working in critical and emergency situations. The remote connectors on the front panel optimize the use of the repeater station.

ST.RI.T. is a dual-mode solution (analog/DMR) that can be assembled with both the Motorola Solutions SLR5500 repeater station and the Radio Activity Kairos repeater.



In the event of failure, the programming data is saved in the available and self-programmable memory of the system.

*(Italian name deriving from: **St**azione **Ri**petitrice **T**rasportabile)*


**ST.RI.T+**


**ST.RI.T.K**

# CONFIGURATIONS

There are 4 versions of ST.RI.T., developed on the basis of the needs expressed by Mission Critical Customers.

## ST.RI.T
Single-site version with SLR5500 repeater.

## ST.RI.T.K
Version assembled with Radio Activity Kairos repeater.

## ST.RI.T.+
ST.RI.T. Plus is a complex and advanced configuration, created to set up a field IP-Site Connect network. Through IP interconnection, the coverage of a radio network can be extended on the territory by means of several interconnected field repeaters. The connection between sites can take place in the traditional way or via a multi-SIM 3G/4G modem integrated in the ST.RI.T.+ configuration.

## ST.RI.T.S+
ST.RI.T.S. Plus has the same ST.RI.T.+ structure but in an airtight case.

# FEATURES

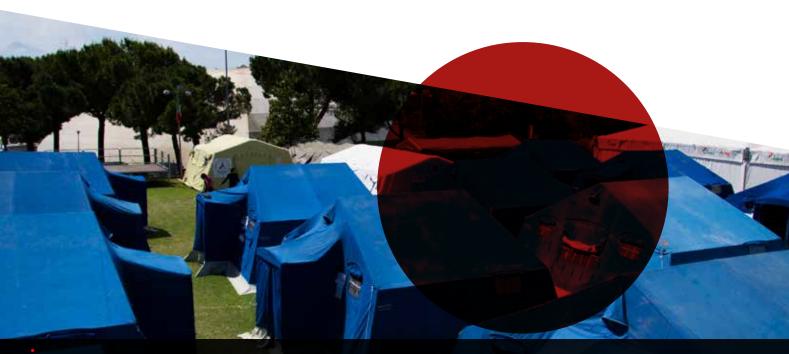| | | |
|---|---|---|
| Installable repeaters | | DMR SLR5500 |
| | | DMR Kairos |
| Power supply | | 12 V / 220 V |
| Backup battery | ST.RI.T | 2 x 7 Ah |
| | ST.RI.T.K | 2 x 7 Ah |
| | ST.RI.T+ | 2 x 20 Ah |
| | ST.RI.T.S+ | 2 x 20 Ah |
| Assembly | | RACK 19" |
| Installing options flight case | | |
| | | Hermetic trolley and handles on request |
| | | In 19" rack cabinet |
| Connections | | USB/Audio/Mic/GPS |
| | | Ant. RTX N/LTE/WiFi |
| Main color | | Black and Sinora grey |
| Weight | ST.RI.T | 26,6 kg |
| | ST.RI.T.K | 22,3 kg |
| | ST.RI.T+ | 55 kg |
| | ST.RI.T.S+ | variabile |
| Dimensions H W D | ST.RI.T | 615 x 545 x 235 |
| | ST.RI.T.K | 615 x 545 x 235 |
| | ST.RI.T+ | 660 x 545 x 75 |
| | ST.RI.T.S+ | variabile |

# ST.RI.T. BackPACK

## Backpack repeater

ST.RI.T. BackPACK is a mobile solution, a rigid, watertight, hermetic and non-deformable backpack, which houses a repeater station complete with duplexer filter, feeder and backup battery.

The ergonomic backrest is made with an antibacterial foam, while the interior is customized with Motorola Solutions SLR1000 repeater equipment or with Radio Activity Kairos.

Properly engineered, it makes the most of the adjustable shoulder straps for suitable carrying. Thanks to the assembly of the tools in a specular and balanced way, it makes handling easy.

In addition to the Kairos or SLR1000 repeater, a 3G/4G/Wi-Fi router is housed inside, useful for link mode interconnection. The connection can be useful for extending an already existing radio network coverage.

## VERSIONS

| ST.RI.T. BackPACK | With SLR1000 di Motorola Solutions |
| --- | --- |
| ST.RI.T.K BackPACK | With Kairos di Radio Activity |

## ACCESSORIES

### Backpack

Tripod for ground support;

Remote connectors.

## OPTIONS

3G/4G/Wi-Fi Router.

## FEATURES

| Installable repeaters | DMR SLR1000 DMR Kairos |
| --- | --- |
| Frequency | VHF / UHF |
| Power supply | 12 V / 24 V / 220 V |
| Backup battery | Ah (1 h standby) |
| Case | ABS watertight |
| Connections | USB / LAN Ant. RTX N |
| Main color | Black and Sinora grey |
| Weight | 10 ~ 15 kg |
| Dimensions H W D (mm) | 498 x 370 x 185 |

# BAGroad

# Portable tactical case

*BAGroad is the ideal solution for those transporting emergency material and needing to quickly use radio devices.*

BAGroad is intended for those who need to use portable radio equipment on the field. The case is equipped with battery chargers connected to a single power outlet inside the case.

The configuration allows for the simultaneous recharging of all the portable transceivers or of batteries independent of the radio equipment. Thanks to the shock-absorbing sheath, the radio terminals housed on the recharging bases can easily and safely be carried.

Using multiple chargers, the storage capacity could be increased while respecting the dimensions of the case and the resistance and impermeability features.

Particularly suitable for the Civil Protection, military bodies, emergency services, event organizers or electronic equipment hirers, it can also be used on construction sites and for maintenance and inspection activities

.



**BAGroad**

*BAGroad Park*

**BAGroad 6.2**

## VERSIONS

| | |
|---|---|
| BAGroad 6.1 | Case with 1 six-port multiple charger; |
| BAGroad 6.1v | Case with 1 multiple charger and 1 storage compartment; |
| BAGroad 6.2 | Case with 2 six-port multiple chargers; |
| BAGroad 12 | Case with 12 single chargers; |
| BAGroad 4 | Case with 4 single chargers; |
| BAGroad Park | Case with shaped compartments for storing radios and batteries. |

## FEATURES

| | |
|---|---|
| Power supply | 220 V |
| Case | Waterproof shockproof; trolley, handles |
| Connections | radio |
| Main color | Black and Sinora grey |
| Weight | 12 ~ 24 kg |
| 12p Dimensions H W D (mm) | 650 x 510 x 245 |
| 4p Dimensions H W D (mm) | 417 x 298 x 247 |

## ACCESSORIES

| | |
|---|---|
| Trolley | Wheels and handle for transport. |

# DESKStation

# Fixed or portable station

*The stations are assembled according to the customer's specific needs, using vehicle transceivers inside a Microset powered station.*

The different configurations include feeder and rechargeable batteries, to guarantee operation even in the event of a power failure.

The Microset power station is suitably modified according to the final use and the radios placed in its plug-in.

DESKStation can be supplied as a base station or a connection terminal to the customer's control unit.

## ACCESSORIES

Table microphone;

Palm microphone.

## FEATURES

| | |
|---|---|
| Installable radios | DMR DM series<br>TETRA MTM series<br>LTE TLK series |
| Frequency | VHF / UHF / LTE |
| Power supply | 220 V |
| Backup battery | 7 Ah |
| Assembly | Plug-in radio |
| Installation | Desktop / portable |
| Connections | USB / Audio / Mic<br>Antenna BNC |
| Main color | Black |
| Weight | 10 kg + radio |
| Dimensions H W D  (mm) | 190 x 255 x 235 |

# MidiaBOX

# Audio mixer for the operator

*MidiaBOX is a peripheral mixer designed to interconnect multiple input and output audio devices and manage their properties such as volume, balance, quality and functions, in an operations center.*

MidiaBOX can manage the connected peripherals controlling their use and combining them on the basis of the operator's needs. This way, telephones, microphones, speakers, PCs, radios and headphones will be optimized for any emergency or operating procedure in place.

MidiaBOX has been designed to collaborate with the UniqueSWAP suite, to manage the listening channels on the operations center, mixing radio or telephone calls and adapting to the working methods in the control center.

Created mainly for Sinora solutions, MidiaBOX is so versatile and customizable that it can also be used with applications of partners such as Verbatel and Engie Sanità.

Through the mouse and the UniqueSWAP software commands, MidiaBOX controls:

A SIP telephone;

A radio channel coming from the operations center (one at a time, but selectable from the N channels interconnected with the operations center);

An external PTT, through a mouse or a dedicated key;

Speaker and headphones;

Bluetooth audio;

DECT base with PTT;

DECT Tutor base with PTT;

PTT table microphone.



*MidiaBOX also has specific alarm signals indicating whether or not a radio channel or the configured DECT headphones are connected properly.*

## Typical operation

The operator of a multi-station room like those of the emergency service (112), which handles calls from citizens, always wears headphones for privacy and functionality. With MidiaBOX, upon receiving the call, he or she can activate the answer with a mouse click or through the answer key of the device.

In this case, MidiaBOX routes the telephone call to the predefined output, i.e., headphones, and at the same time automatically diverts any audio coming from the radio channel to the external speakers. When the operator handling the phone call has to activate an external service,

for example contacting a patrol or an ambulance via the radio network, he or she mutes the phone microphone by pressing the PTT MidiaBOX, thus maintaining discreet communication on the radio channel while listening for the received emergency call. This automatic mode can be "forced" by the operator, who will be able to manage the connected peripherals at will or as needed.

In the background, while switching between the various available channels, MidiaBOX activates a pause acoustic signal to indicate the temporary suspension of communication.

MidiaBOX's versatility allows switching from one device to another without removing connectors: it can indeed manage the use of headphones or speakers via software, the external physical PTT or the software integrated into the application, as well as reproduce audio 1 (telephone communication) in the right speaker and audio 2 (radio communication) in the left one. Also, it can activate the PC microphone, the external one of the headphones or the radio table microphone.

## FEATURES

| | |
|---|---|
| Power supply | 12 V |
| Case | plastic/aluminium |
| Connections | Audio, USB, phone |
| Main color | Black and Sinora Gray |
| Weight | 0,1 ~ 0,5 kg |
| Dimensions | not defined |

## ACCESSORIES

Stereo telephone headset;

Stereo speaker;

SIP desktop telephone;

DECT headset;

External PTT.