

# TacNet400



## Design

TacNet400 was designed by GISS in cooperation with Pacific Star Communication Inc. The main goal of the project was to provide a SWaP-C compliant product. TacNet400 system is particularly suitable for operations where there is a need for mixed transport (tactical and civil) and the need to work in camouflaged positions. Construction is passively cooled, without the use of air circulation forcing elements.

TacNet allows the devices to work for up to two hours without access to external power supply. It is possible to reconfigure the set of SWaP devices (two routers and a switch as standard) to another one consisting of any 3 SWaP modules.





## TacNet400 consists of the following components

- Transport and protection hardcase with a set of power supplies with RED/BLACK power buffer function.
- LTE/WiFi/Ethernet access modem Cradlepoint IBR900.
- SWaP-C Pacific Star Communication PS441 (2 cpl.) field tactical router.
- Field tactical switch small SWaP-C Pacific Star Communication PS442.

Additionally, the case is adapted for installation and power supply of encryption devices including KG-250X/XS and two batteries/accumulators for AN/PRC-152-148 radio stations.

**TacNet400** is equipped with **Pacific Star Communication IQCore** management software.

**TacNet400** enables transportation and operation of all components of the set after opening the case. Installation and replacement of components is done without tools!

**NOTE: It is possible to provide configurations including equipping the kit with other SWaP modules such as router, switch and server.**

- ✓ Transportation and protection case with a set of power supplies (2 complets) with RED/BLACK power buffer function.
- The suitcase serves as a TacNet mechanical and electrical base and is based on the PELI 1520 model. Using a product from a recognized manufacturer as a base guarantees the highest quality.
- As part of the base case, GISS has designed dedicated metal mounting elements, cabling and a set of power supplies for transporting and operating all elements of the set. The case is equipped with pressure equalization valve.
- External dimension 499 mm x 393 mm x 191 mm. The size was selected to meet the requirements of hand luggage size

of international aviation organization FAA. The suitcase was selected from commercially available and commonly used suitcases so that it does not stand out during transport.

- The case is impact-resistant and its casing is made of plastic. The case meets the requirements of IP67, STANAG4280/Def State 81-41/MIL C-4150J.
- The set of AC/DC power supplies cooperates with rechargeable batteries for AN/PRC-152/148 and AN/PRC-117 radio stations, including during movement.
- A single power supply unit included in the set supplies all TacNet400 components, including the additionally installed encryption device. The set of power supplies meets the electrical and environmental requirements required for the set components.
- The power supply kit uses dedicated AC and DC power wiring. The power supply wiring set is supplied with TacNet400. The cabling also includes a cable to connect three batteries to the AN/PRC-117 radio (hot-swap functionality).
- AC input voltage range 100-240V. Output voltage DC 24V.

- ✓ LTE/WiFi/Ethernet access modem Cradlepoint IBR900\*.
- ✓ SWaP-C Pacific Star Communication PS441\* field tactical router (2 cpl.).
- ✓ SWaP-C Pacific Star Communication PS442\* small field tactical switch.

## The advantages of TacNet400

- The look of a civilian suitcase.
- Dimensions allowing for transport in a civilian luggage compartment.
- Any device configuration.
- SWAP-C.
- Two independent power circuits.
- Dedicated emergency closing system.
- Hot swap.
- Open development.

SWaP-C network devices can be used in the BICES mobile network domain.

\* The data sheet in the form of an extract from the manufacturer's website is an additional attachment to this data sheet.