HARDWARE

CUBICLES

FOR THE RTDS® SIMULATOR

NovaCor, the current generation of RTDS Simulator hardware, can be used standalone and does not necessarily need to be mounted in a cubicle. However, cubicle mounting of simulation hardware and I/O cards is very convenient and provides visual appeal. There are two types of cubicles available — the **NovaCor Cubicle** and the **Portable I/O Cubicle**.

NOVACOR CUBICLE

This cubicle, which has a standard rack width of 19", houses NovaCor chassis and GTNETx2 card chassis. It also houses I/O cards on DIN rails in the rear of the cubicle. The cubicle includes cut-outs for cable routing and a removable rear door and side panels.
It can house:

- Up to 2 NovaCor chassis and 3 GTNETx2 chassis
- Or, up to 3 NovaCor chassis if no GTNETx2 chassis are installed

In a standard NovaCor chassis configuration, this cubicle also houses:

- An Ethernet switch
- A smoke detector
- Front panels for Low- and (optional) High-Voltage Digital I/O
- Global Bus Hub and IRC Switch (optional) – may have their own dedicated cubicle

A NovaCor cubicle housing NovaCor chassis, GTNETx2 chassis, and front panel digital I/O

Auxiliary I/O cards and power entry components are accessible from the rear of the NovaCor cubicle

DIN RAIL SPACE FOR I/O CARDS

I/O cards mounted on DIN rails are easily accessed from the rear of the cubicle and are connected to the NovaCor chassis via fibre optic cables. The amount of available DIN rail space varies depending on the quantity of simulation hardware installed in the cubicle. In a cubicle with 1 NovaCor chassis installed, there is a total of **189.5 cm** of available DIN rail space. The DIN rail space is reduced by 44.3 cm per chassis added. I/O card dimensions are available upon request.

CUBICLE POWER ENTRY

The cubicle will be outfitted with an appropriate mains supply connection plug for the region of installation. Other included power entry components include:

- Solid state relays and circuit breakers for each major component
- Power supplies for LEDs and auxiliary hardware
- Cubicle safety disconnect relay

CUBICLE DIMENSIONS

68.3 x 79.4 x 189.5 cm (width x depth x height)

PORTABLE I/O CUBICLE

This small cubicle (pictured below), mounted on wheels for easy relocation, provides additional DIN rail space for mounting I/O cards. The portable I/O cubicle can be used as convenient housing for I/O cards connected to a standalone NovaCor chassis, or it can complement the NovaCor cubicle when users require even more space for I/O. It can house:

- GTAO, GTAI, GTDO, GTDI, GTFPI, and GTSYNC cards
- Front panels for Low- and/or High-Voltage Digital I/O

DIN RAIL SPACE FOR I/O CARDS

I/O cards mounted on DIN rails are easily accessed from the rear of the cubicle and are connected to the NovaCor chassis via fibre optic cables. The portable I/O cubicle provides 155 cm of DIN rail space. I/O card dimensions are available upon request.

CUBICLE DIMENSIONS

30 x 30 x 103 cm (width x depth x height)

The front of the portable I/O cubicle can optionally include low or high voltage digital I/O

Additional I/O cards and power supplies are accessible from the rear of the portable I/O cubicle

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