

## EASY3000B

# Crate for EASY3000 System for Hostile Area with Bolt Connectors



## Features

- Full integration in SY1527/SY2527 Systems
- Up to 10 boards per crate
- Up to 3 kW output power
- Magnetic field tolerance up to 2 kGauss
- Radiation tolerance
- Power Supply Bolt Connectors

## Description

**EASY3000 (Embedded Assembly SYstem)** is the new CAEN power supply solution for operation in magnetic field and radioactive environment. CAEN has been involved for more than a decade in developing different solutions for the main LHC experiments, where the electronic equipment of the experiment is dealing with high dose radiation and intense magnetic field. In order to provide safe and reliable operations in such hostile areas, CAEN started tests with rad-tolerant components and magnetic field resistant solutions, patenting the new technology that is now used in this new line of products. Moreover, though designed for harsh environment, the EASY3000 modules can work also in normal condition with excellent performance.

### **Brass hexagon head bolt connector**

Brass hexagon head set screw, M6 x 30 mm for EASY3000B

Consult our **connectors reference page** for technical information.

The **EASY3000** crate must be used with an air and/or water intercool. The **EASY3000B** crate is designed to house Power Supply and ADC boards of EASY3000 family; it supports mechanically EASY boards and distributes control signals and power supplies. It is handled by one of six branches of the **Branch Controller A1676A**.

The EASY3000B crate must be used with an air and/or water intercooler and its standard width fit the rack mounting. An optional fan tray (A3000F - EASY3000 Fan Unit) can be used for the stand-alone operation of the EASY3000B crate when no magnetic field is present.

EASY3000B is powered by external 48 V DC. The EASY architecture foresees two independent 48 V power supplies: the first (48 V Power) to power the channels regulators, the other (48 V Service) to power the control logic. EASY3000B has power supply (with bolt connectors) and link connection on the rear panel.

The use of CAEN 48 V power sources (Mod. **A3484**, **A3485** and **A3486**), allows to integrate into the channels control also the management of the 48 V power supplies; A3486 is also suitable to hostile areas.

## Technical Specifications

### Nr. of modules per Crate (max)

10

### Depth

65 cm

### Height

6 U

### Width

19" (84 T.E.)

### Weight

10 kg

## Ordering Options

Code	Description
WEASY3000MBB	EASY3000B - Crate for EASY3000Power Supply System in Hostile Area - Bolt Conn.

## Related Products

### EASY3000S



Front Access Crate for EASY3000 System for Hostile Area

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### EASY3000



Crate for EASY3000 Power Supply System for Hostile Area

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