• Embedded rugged computers
• –40° to 85° C
• Embeded operating systems
• COTS—high reliability

• 6510 W. 91st Ave • Westminster CO 80031 • USA   * PH: 303-430-1500 * FAX 303-412-2050

PC/104 Can–Tainer™ enclosures with convection cooling

The PC/104 Can–Tainer is a new and unique design specifically intended to protect PC/104 electronics such as instrumentation, data collectors, remote terminals, SCADA packages or other solutions that operate in hostile environments. The Can–Tainer is constructed of 0.125″ aluminium that can accommodate any number of PC/104 modules including their cabling and peripherals, with maximum flexibility in a minimum amount of space. These units are designed to be used anywhere embedded electronics require a black box.
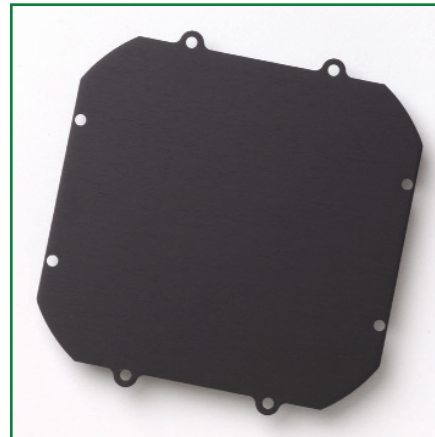
When deploying electronics in mobile or vehicle applications, vibration and G–forces can greatly reduce their life expectancy and reliability. The Can–Tainer ensures the PC/104 modules receive maximum protection from vibration and G–forces. This is accomplished with a dual system of isolating and absorbing rubber mountings. Internally, each of the four corners of the PC/104 stack is held in place by a rubber corner system, which isolates the PC/104 cards from the extruded aluminum enclosure as it absorbs high frequency vibration. Externally, the anodized aluminum enclosure mates with a thick rubber–mounting pad allowing the Can–Tainer to be attached to a bulkhead while it absorbs low frequency G–forces. The rubber pad is optional and may be removed.

The Can–Tainer is NEMA rated when used with optional endcap gaskets, appropriate endcaps and connectors. Each anodized aluminium endcap is securely attached to the housing with eight self–tapping, hex head machine screws.

PC/104 cards plug into any system with a PC/104 interface. The Octagon family of PC/104 single board computers, expansion cards, and enclosures provides a complete solution for applications in transportation, security, military, communications, distributed control, point–of–sale, ticketing machines, weighing equipment, and other similar applications.

Solid endcap. Custom endcaps available.

Accessories
Custom endcaps with any combination of connector holes can be supplied to meet specific client requirements. Accessory equipment, such as batteries and transmitters, may be attached to a PC/104–AL mounting plate and included in the PC/104 stack.

Certified Partner program

The PC/104 Can–Tainer is an Octagon Certified Partner product, which is guaranteed compatible with Octagon CPU cards. The PC/104 Can–Tainer will withstand high shock and vibration, and operates in temperature ranges of Octagon cards. This rugged enclosure will provide years of reliable service in the most challenging environments.

Features

ENCLOSURE SPECIFICATIONS:

◆ Rugged anodized aluminum

◆ Securely holds PC/104 modules

◆ Internal stack vibration mount

◆ External isolating shock mount

◆ I/O endcaps

◆ NEMA sealed with endcap gaskets

◆ Available in 2″, 4″, 6″, 8″, 10″ & 12″ sizes

◆ Custom sizes available

CAN–TAINER KIT INCLUDES:

◆ One Can–tainer body (2″, 4″, 6″, 8″, 10″, 12″ sizes)

◆ One solid endcap (CT–EC00)

◆ One endcap with four DB–9 & DB–25 (CT–EC01)

◆ One anti–shock mounting pad

◆ Two gaskets (CT–EC)

◆ Four corner guides

◆ Eight corner rubber guides

◆ One tube CA glue

◆ 16 endcap screws

SPECIFICATIONS:

◆ Rugged anodized black aluminum; other finishes available; 6063–T5 aluminum extrusion alloy

◆ Average coefficient of thermal expansion: 13.0 μin/°F (68°–212° F)

◆ Thermal conductivity: 1450 BTU, in/ft^2 hr °F (@ 77° F)

◆ Electrical resistivity: 2.8 μOhm–cm (@ 68° F)

SIZE:

◆ 2", 4", 5", 6", 8", 10" and 12" sizes available

◆ Cross–section measures 6.00″ wide by 5.45″ high (not including mounting pad).

ORDERING INFORMATION

#6610 PC/104 CT2, 2" Can–Tainer kit

#6609 PC/104 CT4, 4" Can–Tainer kit

#6608 PC/104 CT5, 5" Can–Tainer kit

#6727 PC/104 CT6, 6" Can–Tainer kit

#6728 PC/104 CT8, 8" Can–Tainer kit

#6729 PC/104 CT10, 10" Can–Tainer kit

#6730 PC/104 CT12, 12" Can–Tainer kit

#6607 PC/104 CTEC00, endcap