

FlexTainer

Image:



- Dual shock and vibration protection system
- EPIC, Mini-ITX, and EBX Mounting
- Passively cooled
- Easily customized: length, coating, etching, milling, mounting
- 6063-T5 extruded aluminum, 0.125" thick
- High grade extruded rubber
- Black anodized coating
- Available in standard lengths: 4.55" (EPIC), 6.75" (Mini-ITX) and 10" (EBX)
- RoHS compliant

The FlexTainer is a rugged enclosure system for packaging EPIC, EBX, or Mini-ITX CPU payloads. It is constructed of .125" aluminum and designed for hostile and mobile environments. The FlexTainer features a dual system of shock and vibration isolation: The CPU payload is mounted horizontally in the enclosure with two internal rubber corner rails to absorb high-frequency vibrations, while the entire enclosure is mounted on the host platform with a thick rubber pad which absorbs low-frequency G-forces. The rubber pad may be removed for optional mounting solutions such as hard mounting, flange endcap, or fluidic mount assembly.

The FlexTainer cross section measures 7.00" wide by 5.00" high (not including mounting pad) and is designed to mount the CPU payload horizontally along the entire length of the enclosure body. The CPU is mounted on a choice of three adapter plates (EPIC, Mini-ITX, or EBX) which is then installed in the FlexTainer. Ample room is provided for several PC/104 accessory cards to be installed above the stack, accessories such as hard drives or power supplies below, or thermal solutions such as cooling pipes or custom designed heat spreaders.

Product Description:

The FlexTainer™ is a new and unique design specifically intended to protect embedded electronics such as instrumentation, data collectors, remote terminals, SCADA packages or other solutions that operate in hostile environments. The FlexTainer™ is constructed of 0.125"

aluminium that can accommodate Epic, Mini-ITX, PC/104, ETX and other modules including their cabling and peripherals, with maximum flexibility in a minimum amount of space.

Deploying electronics in mobile or vehicle applications, vibration and G-forces greatly reduce product life expectancy and reliability. The FlexTainer™ ensures the modules receive maximum protection from vibration and G-forces. This is accomplished using Tri-M's dual system of isolating and absorbing rubber mountings. Internally, each of the four corners of the carrier plate is held in place by a rubber corner system, which isolates the 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 FlexTainer™ to be attached to a bulkhead while it absorbs low frequency G-forces. The rubber pad is optional and may be removed.

A solid (no openings) end cap is included with the FlexTainer kit. Custom end caps with any combination of connector holes can be supplied to meet specific client requirements. The FlexTainer™ is NEMA rated when used with optional end cap gaskets, and appropriate cables and connectors. Each anodized aluminium end cap is securely attached to the housing with eight selftapping, hex head machine screws. The standard black anodized FlexTainer™ measures 7" x 4.0" (W x H) and comes in three standard lengths of “Epic” (116mm), “ITX” (172mm), and 10". The FlexTainer™ Kit includes one solid end cap with no I/O openings (Part # CT-EC00), sixteen end cap screws and one shock mount pad and a carrier plate with mounting rubber.

Specifications Dimensions:

10 × 7 × 4 in

Pricing Product variations:

PER-ENC-00408

PER-ENC-00409

PER-ENC-00410

PER-ENC-00411

PER-ENC-00412

PER-ENC-00413

Mounting:

Rubber Shockmount

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