

FEATURES

- Low cost EPIC SBC enclosure
- Heavy duty extruded aluminum housing
- Quick and simple assembly
- SBC mounting plate with PEM standoffs
- Mounting plate slides in/out of main housing
- Two additional PC/104 modules can be installed
- Rugged .080" thick end plates
- I/O connector cutouts provided in the end plates
- Custom configured end plates available

FUNCTIONAL CAPABILITY

The ENC-EPX-1000 is a simple, low-cost enclosure for EPIC-based single board computer systems with PC/104 expansion modules. The interior of the enclosure is large enough to install any PC/104 module even with latching I/O connectors.

The enclosure allows a designer to package a variety of system configurations quickly and easily. Applications include military/defense, communications/networking, industrial data acquisition, control, and instrumentation.



ENC-EPX-1000 consists of four items.

Assembly - The enclosure is made of four items: extruded aluminum outer cover, two end plates and a EPIC computer module base plate. The ENC-EPX-1000 is designed to mount in a variety of configurations. It can attach vertically on a wall, on a table, under a counter or inside a larger piece of equipment. It has a flange on the end plates with four 0.250-inch holes. The unit is easy to mount and only requires four #6 screws.

Outer cover - The black painted outer shell of the enclosure is an extruded aluminum housing that measures 8.0"W x 6.0"D x 3.0"H. It offers protection for a number of different applications.



Aluminum was chosen because it provides excellent shielding from light, RFI/EMI, or infrared radiation. It has a high strength-to-weight ratio making it rugged and durable. Aluminum will not rust like steel and is corrosion resistant. Aluminum is non-combustible, non-magnetic, non-sparking, non-toxic and recyclable. It is also thermally conductive to dissipate component heat.

Base plate - There are six PEMs on the 0.062" aluminum chassis base that allow an EPIC SBC to be firmly supported, attached with screws, and easily inserted or removed from the slotted extruded aluminum cover. The chassis plate is designed for flexibility with cable runs under the chassis to the end plates or for other special I/O cable issues. The CPU mounting plate has PEM stand-offs that allow cables to be routed under the CPU or under the mounting plate. A user can design his or her own base plate if a special application is required.

Using the standard base plate, an EPIC-compatible SBC and two additional PC/104 cards can fit inside the enclosure. There are no ventilation holes in this enclosure. Therefore a low power SBC should be used in the ENC-EPX-1000 to prevent excessive self-heating.

End plates - Two end plates are attached at opposite ends of the outer cover. The two 0.080" thick end plates host the cut-outs for all of the typical I/O connectors found on a WinSystems' EPIC SBC. The end plates also have a 5/8" bottom mounting flange. Each flange has two 0.250" holes to allow it to be securely fastened.

The standard end plates do not come with cables attached. A cable set is available for certain WinSystems' SBCs. Please see the ordering information below or visit our website www.winsystems.com for the latest information.



ENC-EPX-1000 End Plates.

WinSystems will offer custom end plates for customers needing 50 or more units. Also, a custom silk screen is available on custom end plates. There are some non-recurring engineering NRE charges involved to cover design, prototype and other one-time costs. The lead-time would be approximately 6-8 weeks for the first order and 4-6 weeks on additional orders. Please contact a WinSystems' applications engineer for a quote on cost and current lead-times.

WinSystems may offer additional standard end plates in the future. Contact an application engineer for more details. As another alternative, a user can easily make their own end plates to match the complement of their I/O card connectors and cabling requirements. WinSystems can provide an AutoCAD™ drawing for a blank end plate to help you begin your design.

Source - WinSystems' enclosures are designed, engineered, manufactured, and assembled in the United States.

Standard Ordering Configurations - WinSystems has standard end plates and cable sets for its EPIC single board computers. For example, the KIT-HW-G-322-ENC-1 is the hardware kit for ENC-EPX-1000 using the EPX-GX500. CBL-SET-322-G-ENC-1 specifies the appropriate cable set.

SPECIFICATIONS

Materials

Outer cover: Extruded aluminum
 End plates: 0.080" aluminum
 Base plate: 0.625" aluminum
 Finish: Black paint (except for the internal mounting plate, that plate is clear)

Mechanical

Size: 9.5"W x 6.0"D x 3.0"H
 Weight: 2.4 pounds

ORDERING INFORMATION

ENC-EPX-1000	EPIC SBC enclosure
KIT-HW-G-322-ENC-1	Hardware kit for ENC-EPX-1000 using the EPX-GX500

Accessories:	
EPX-GX500	EPIC SBC with video and Ethernet

Cables for WinSystems' EPX-GX500	
CBL-SET-322-G-ENC-1	ENC-EPX-1000 complete cable set for the EPX-GX500
CBL-316-G-1-0.5	Internal power supply cable
CBL-317-G-2-1.5	External power supply cable w/o external termination
CBL-251-G-2-1.0	Multi I/O cable
CBL-270-G-3-0.583	Audio cable
CBL-327-G-1-1.08	Digital I/O cable
CBL-275-G-2-0.667	USB cable
CBL-234-G-1-0.916	Video cable

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