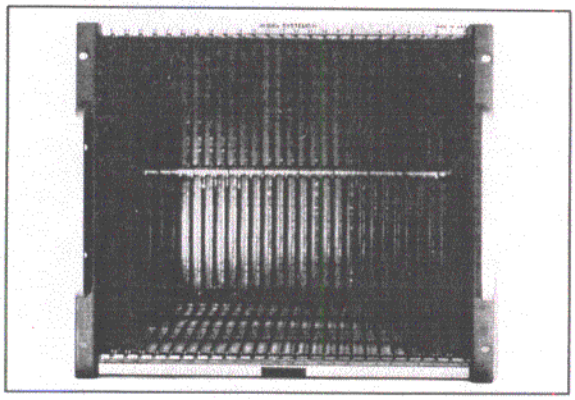
FASTBUS CRATE

MODEL FB 8127- R3

FEATURES:

- Redesigned busbar makes power attachment easy
- Strain relief clamps for power cables
- Safety shield covers for power terminals
- 8 Layer Segment Board
- Sense Lead Card included
- New Segment and Auxiliary connectors
- All guide rails are electroless nickel-plated

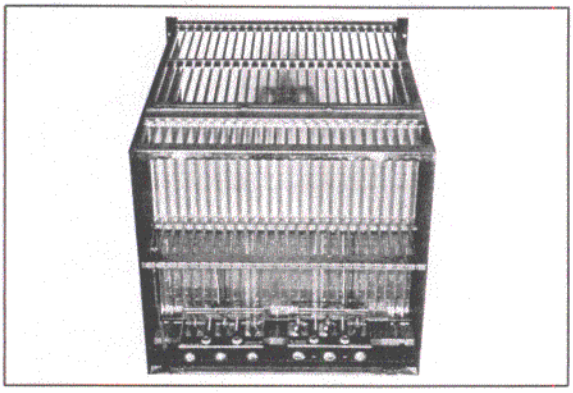


General Description

The Bi Ra Model FB 8127 - R3 meets all requirements of FASTBUS specifications and IEEE Standard 960 for Type (A) air-cooled crates. This fully redesigned crate is a standard rack-mountable package with 26 slots. The backplane of the crate consists of two parts; the Segment and the Auxiliary Backplane. The FASTBUS "Segment" is the digital data bus which provides the control and flow of data in the system. The FASTBUS "Auxiliary" is a separate PCB (optional) which is not employed for the transfer of data, instead it is used to implement optional features such as analog outputs to trigger logic, rear-panel inputs or custom I/O. The 26 station Segment Assembly is an eight (8) layer printed circuit board with ground and power planes embedded. The **NEW** Segment and Auxiliary connectors provide accurate placement of either flat or long half-slotted module connectors and pins are field replaceable.

Crate Description

The Model FB 8127 "A" FASTBUS Crate meets all requirements of the FASTBUS Specification (DOE/ER-0189) of the U.S. NIM Committee. The Crate is a 26 station, air cooled crate with a multilayer segment PCB capable of providing full power to modules. Electroless nickel-plated guide rails insure smooth alignment and minimizes air obstruction for cooling of the modules and provides excellent ground return (especially for analog designed modules). All support and mounting bars have been strengthened and self-locate through side panels.

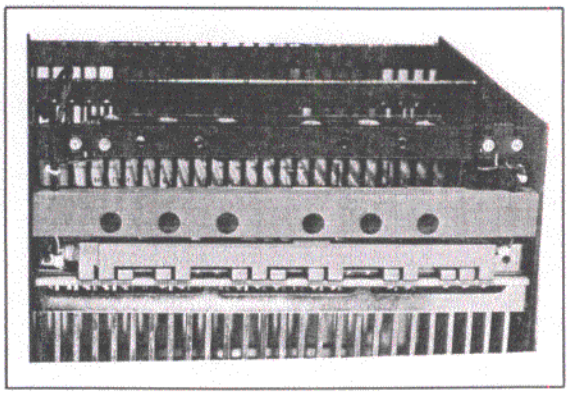


Halt / Run Description

The Halt/Run Bar actuates a switch mounted in the front mounting bar of the bottom rack. Pressing the center front of the bar allows the bar to release (halt position) and drop down, allowing the insertion or removal of a FASTBUS module. The bar will not lock into place (run position) unless modules are fully inserted into crate. The new design allows user to release bar (halt position) on bench top.

Powered Busbar Description

The redesigned busbar and digital return allows the user to attach and disconnect power cables easily. Power connections for the +5V, -5.2V, and -2V are made to tin plated copper bus bars attached to the bottom of the Segment PCB. Digital Return is mounted directly above the power connections on the Segment PCB to a tin plated copper bus bar. New strain relief clamps secure the heavy power and digital return cables. New safety shield covers protect these connections and indicate proper placement of cables. The analog voltages (+/-15V) and returns (split between stations 0-12 & 13-26) are soldered to the Segment PCB and brought to two connectors at the bottom rear of the Crate.



Crate Specifications

Dimensions:	19" rackmount, 15.75" height, 22.425" depth.
Weight:	39 lb. (17.7 kg)

Options:

1) Models FBA-771 & FBA-779 are RS485 output Auxiliary cards
2) Ancilliary Logic Set(Model FB8183) contains Model FB 8177 ATC, Model FB8178 GAC cards

2404 Comanche N.E.
Albuquerque, NM 87107

Bi Ra Systems

Phone (505) 881-8887
Fax (505) 888-0651