

Technical Bulletin

LabARMOR-715/718

Rack Mount MiniARMOR System with 15/18 User Slots
Airborne Data Acquisition Products



LabARMOR-715



LabARMOR-718

FEATURES

- Interface between High Speed Digital Recorders and Multiple Data Types
- Record and/or Playback Configurations
- Adaptable to all Digital Recorders
- Flexibility through Plug-In Cards and Software Programmability
- Remote Control Panel for manual operations
- Windows®-based setup and control Software via Host PC
- Standard 19" EIA Rack-Mount Assembly
- Spares commonality with the MiniARMOR (Plug-In Cards)
- 120/240 VAC Power Supply

APPLICATIONS

- Post-mission Data Analysis/Archive
- Tape Dubbing and Duplication
- Ground Support Equipment
- Ground Vehicle Test
- Radar Data
- Target Scoring
- Recorder Capability
 - Aydin ATD-800-II
 - AMPEX DCRsi™**
 - AMPEX DIS™** 120/160
 - Metrum B-VLDS/VLDS-BR
 - L-3 S/TAR™***



communications

SYSTEM DESCRIPTION

The LabARMOR-715/718 are laboratory versions of the MiniARMOR-700 Multiplex/Demultiplex unit. They are designed for use in the relatively benign environments encountered in group test or pre-flight checkout activities. The ruggedized assembly features a 15-slot or 18-slot capacity and is 100% electrically compatible with the MiniARMOR-700.

The LabARMOR-715/718 are standard 19" rack assemblies which operate from 120/240 VAC, 50-400 Hz. They are usually configured along with a rack-mounted digital tape drive such as the DCRsi™ and DIS™ by AMPEX, B-VLDS/VLDS-BR by Metrum, or SCSI-2 compatible tape drive such as L-3 Communications Telemetry-East ATD-800 Series II, or L-3 S/TAR™ Solid State Recorder.

The LabARMOR system is supported by Windows®-based software (the same version used to support the MiniARMOR-700). This software allows the user to configure the system, to control all recording/playback activity, and to duplicate or dub tapes when an additional tape drive is available.

The software automatically detects the hardware configuration setting when playing back a pre-recorded tape. The task of setting up the system, and recovering a specific segment of data becomes a straight-forward task.

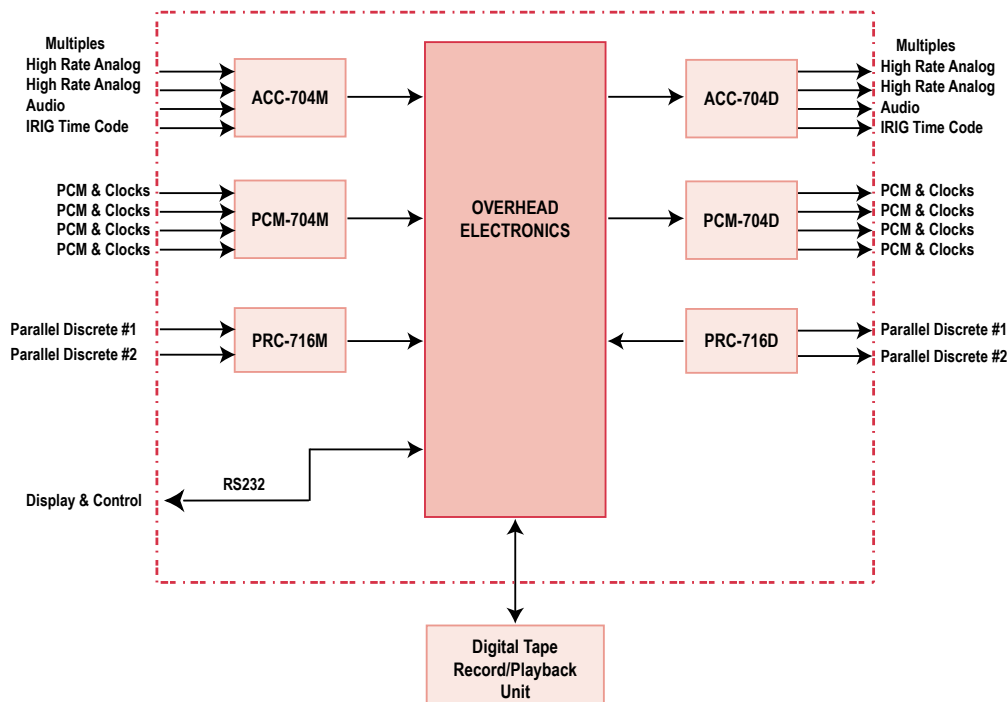
For additional information on the LabARMOR-715/718 performance, please refer to the MiniARMOR-700 Data Sheet.

* Windows is a Registered Trademark of Microsoft Corporation in the USA and other countries.

** A trademark of AMPEX Corporation

*** A trademark of L-3 Communications

LabARMOR-715/718 Multiplex/Demultiplex Unit Typical System

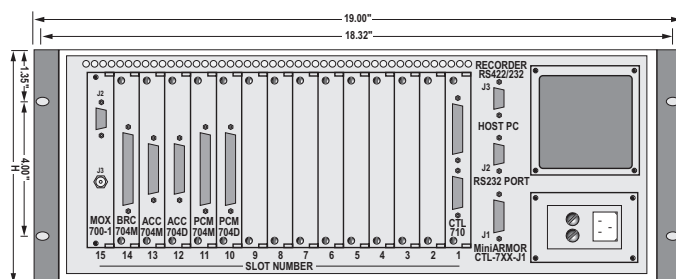


SPECIFICATIONS

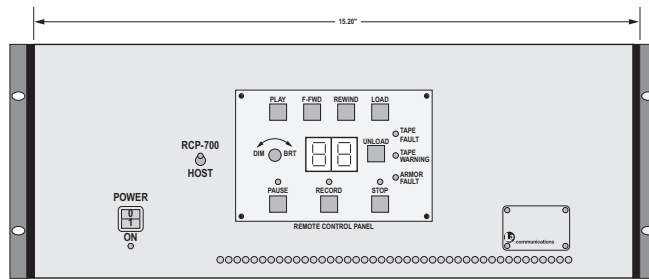
Overhead:	Accepts lab cards similar to the MiniARMOR-700 series plug-in cards.
IRIG Time Code:	Accepts one (1) IRIG-A, B, or G time code "AC" or "DC" input for data frame time tagging.
Remote Control:	The LabARMOR-715/718 both feature an optional embedded Remote Control Panel. Recorder control and status are available to support manual Record/Playback operations. Alternate control with a host PC is selectable via a front panel switch.
Dimensions:	(715) 6.97" H x 15.2" D x 19.0" W (718) 8.75" H x 21.18" D x 19.0" W
Weight:	18 lbs. when fully populated
Connectors:	Cannon "D" and "DD" style except for IRIG Time which is TNC; All connectors are accessible on the rear panel Mounting 19" EIA compatible rack mount assembly, 7" height opening. 8.75" (718)
Ventilations:	Internal Fan-Forced Ventilation

Operating Temp. Range:	0°C to +50°C
Storage Temp. Range:	0°C to +70°C
Power Inputs:	120/240 VAC, 50-400 Hz
Power Supply:	The following power is available for the MDX-700 cards, the CTL-7XX cards (S), and all I/O cards within the system: +5V @ 20A -5V @ 5A ±12V @ 4.5A ±15V @ 4A
Power Consumption:	The LabARMOR-715/718 power consumption is based on the system configuration. An empty chassis which contains only the MDX-700 card consumes 12 watts from the power supply. Additional power is required for the other cards within the chassis. Refer to the data sheets for individual plug-in cards for additional power consumption information.

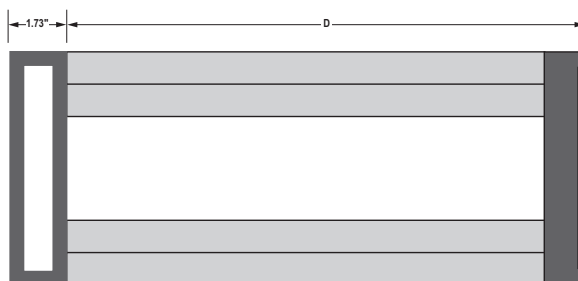
LabARMOR-715 Outline Drawing



LabARMOR 715 Rear View



LabARMOR 715 Front View



LabARMOR 715 Side View

ORDERING INFORMATION

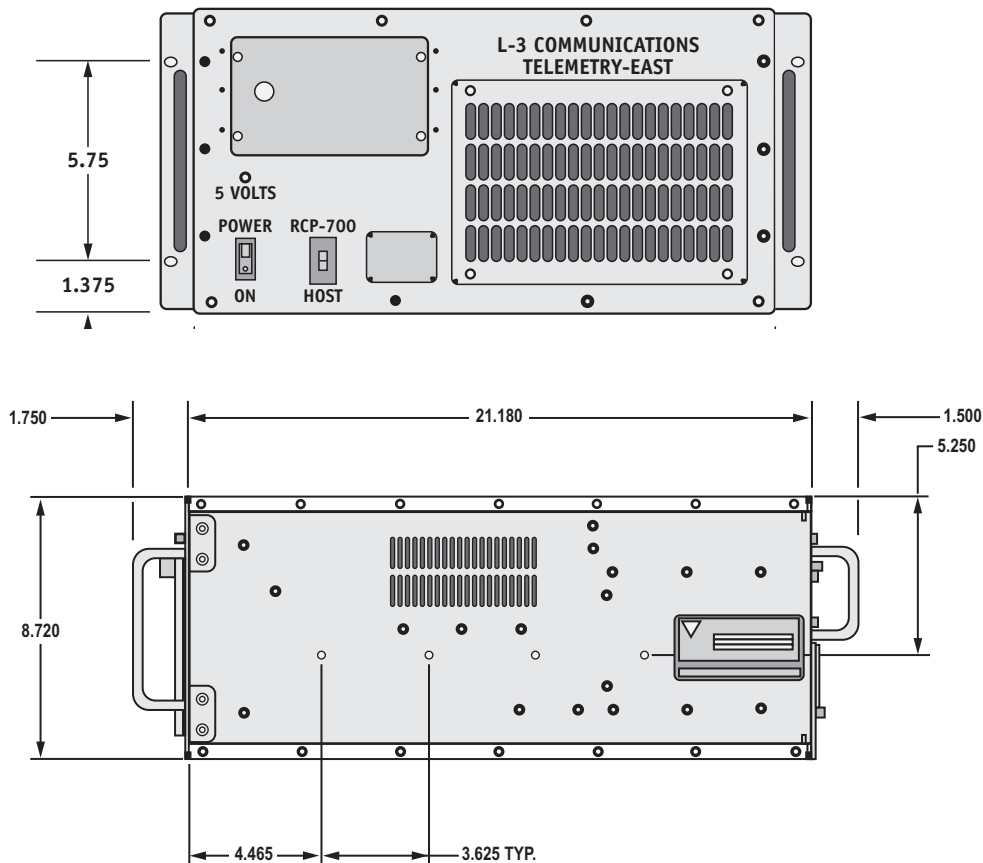
Basic Module

15-Slot Chassis with MDX-700 and power supply
18-Slot Chassis with MDX-700 and power supply

Model No.

LabARMOR-715
LabARMOR-718

LabARMOR 718 Outline Drawing



**Provisions For Slides CGI PN 3610117-01
Chassis Trak P/N C-300-S-120**

