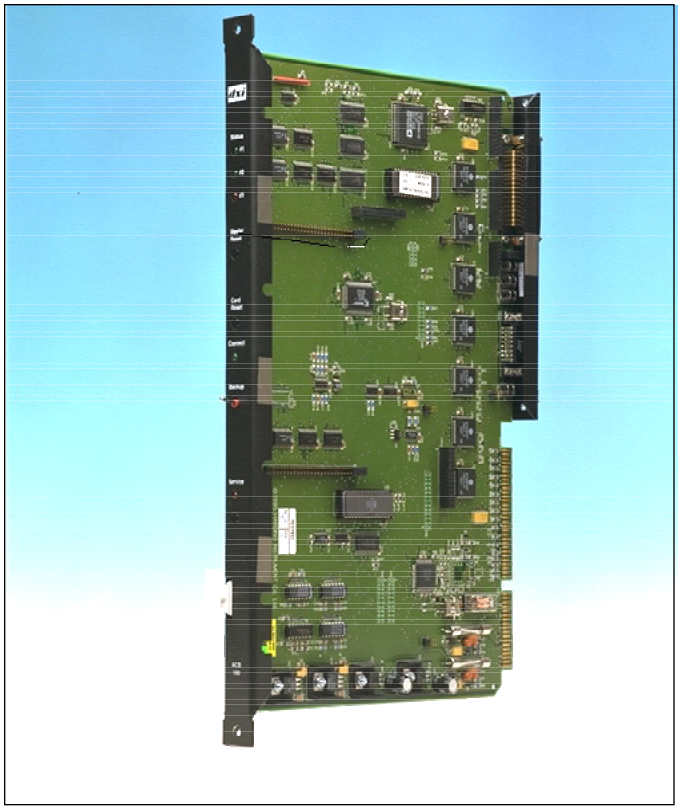
MicroComm DXI

ACB-100
Audio Control Board

Description

The Audio Control Board provides the digital audio switching and processing functions for all the audio cards installed in the I/O card cages. It employs digital time/space switching to route digital audio signals between stations and various other audio devices. Digital signal processors (DSP) are used to control voice operated switching and conference calls, generate signal tones, and monitor intercom stations.

An Audio Control Board is required in any I/O card cage containing audio boards for intercom stations or equipment interfaces. It must be located in the first (or the second, if it is a redundant control board) card cage slot.



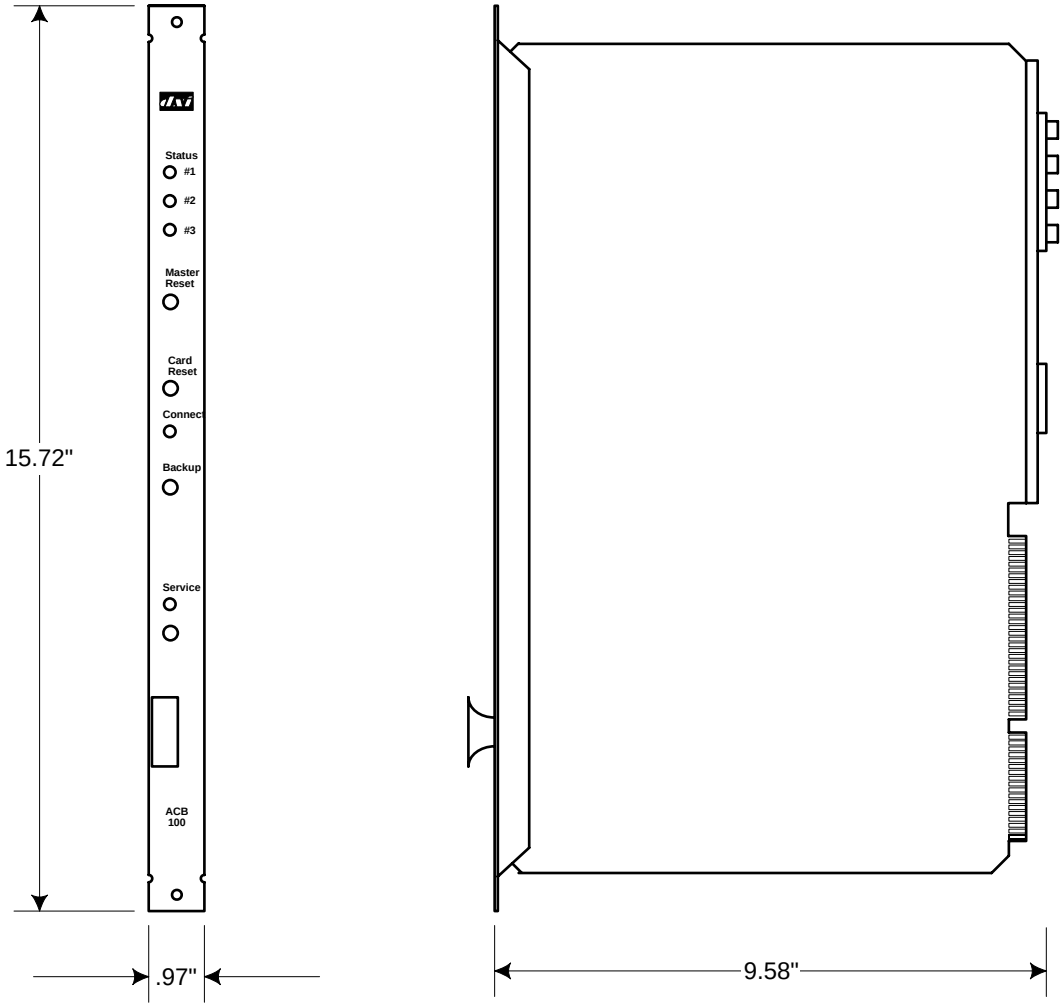
Features

- noise free digital audio processing and switching
- fast interconnection of audio signals
- support for 2 optional digital signal processor expansion modules with 2 digital signal processors each to enable additional master stations and other functions such as conference calls
- support for optional CEPT (E1) digital audio trunk expansion module to provide audio interconnection with other exchanges in large systems
- supports up to 256 intercom stations
- supports up to 12 intercom master stations
- reliable hands free VOX switching for master stations
- can be linked directly to control cards in 1 or 2 additional I/O card cages to expand I/O capacity
- audio bus connections supply a redundant signal to each I/O board
- support for redundant control cards
- automatic and manual switching between main and backup control boards in redundant configurations
- 1 LED indicates network status
- 3 LED's indicate operating status
- self test functions can be operated from the SAC computer
- external reset and backup inputs
- internal fuse protects circuitry
- live card insertion and removal to expedite installation and maintenance
- flash memory enables updating of the CPU and DSP firmware over the network
- all field connections on rear of card to expedite installation and maintenance

Specifications

Physical Form Factor	MicroComm DXI I/O Card
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-40 to 158 °F (-40 to 70 °C)
Humidity	0 to 95 % non-condensing
Power Supply	±12 Vdc ± 10% @ 2 A max provided by I/O Card Cage
Field Connections	DB-50 with quick release lock or; ST connectors for fiber optic CEPT (E1) ports DB-15 with quick screw lock
I/O Capacity	1 card cage link port and 2 digital audio trunk ports or 2 fiber optic digital audio trunks
Cabling	
Copper CEPT (E1)	2 unshielded twisted pairs
Fiber CEPT (E1)	2 fibers - 62.5/125 μm
Standards	FCC Part 15, UL, CSA

Mechanical



Ordering Information

Part number ACB-100-ABC-DEF

A DSP expansion slot 1 options
- 0 none
- 1 standard DSP module

B DSP expansion slot 2 options
- 0 none
- 1 standard DSP module

C audio input expansion options
- 0 none

D network type options
- 1 direct connect
- 2 free topology

E CEPT (E1) digital audio trunk expansion options
- 0 none
- 1 copper I/O
- 2 fiber optic I/O (not available with audio input)

F Memory expansion module options
- 0 none
- 1 memory expansion module

Accessories

Field Interface Cable	CBL-110-A
Card Cage Link Cable	CBL-220 or 230

HARDING INSTRUMENTS
9431 41st Avenue
Edmonton, AB T6E 5X7
Tel 780-462-7100
Fax 780-450-8396

Represented by: