

EMB-6

EXPANSION MOTHERBOARD MODULE

OPERATOR'S GUIDE

APPLIED BUSINESS COMPUTER
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Specifications Subject To
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INTRODUCTION

The EMB-6 is a 6 card slot Expansion Motherboard which is used to extend the AIM-65 Microcomputer Bus, enhancing in this manner its capabilities. The EMB-6 plugs directly to the AIM-65 expansion connector. Different Modules can be used as add-on boards to this Microcomputer, such as the CRT-80 video display, FP-950 Floppy Disk controller, MB-64, 64K dynamic RAM, A/D converters or any other modules supporting the EXORciser Bus.

FEATURES

- * EXORciser Bus compatible
- * 6 card slots
- * Fully decoded to select portions of memory in 4K increments by DIP switches.
- * Fully Buffered.
- * Supports DMA.
- * Straight extended from the expansion connector on the AIM-65.

SPECIFICATIONS

Expansion capacity	64K bytes, 6 Modules
Interfaces:	AIM-65 to EXORciser Bus
Size:	12" wide by 8.25" long
Expansion Connector:	44 pins on 0.156" centers
EXORciser Connectors:	86 pins on 0.156" centers
Operating temperature	0°C to 70°C.
Expansion Board Power Requirement (Module only)	+5 Vdc \pm 5% @ 0.3 Amp.

Logic Levels

	<u>Symbol</u>	<u>Min</u>	<u>Max</u>	<u>Conditions</u>
Power	VCC	4.75V	5.25V	
Inputs: D0-D7, A0-A15, SYNC, R/W, \emptyset 2	V _{IL}		0.8V	I _{IL} = -0.4 mA
	V _{IH}	2.0V	VCC	I _{IH} = 40 uA
Outputs: D0-D7	V _{OL}		0.5V	I _{OL} = 48 mA
	V _{OH}	2.4V		I _{OH} = -10 mA
A0-A15, SYNC, \emptyset 2	V _{OL}		0.5V	I _{OL} = 48 mA
	V _{OH}	2.4V		I _{OH} = -5.2 mA

