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Introduction

Purpose

This document explains how to install and network AlphaEclipse 2600 sign modules.

NOTE: These instructions do *not* cover *cased* AlphaEclipse 2600 signs. For cased signs, see the **AlphaEclipse 2500/2600 Sign Installation Manual**.

Revision history

Revision	Date	Notes
9711-7102	August 14, 2003	Preliminary release.
9711-7102	August 27, 2003	First release.

Related documentation

Part #	Manual title	Description
9711-7001F	AlphaEclipse 2500/2600 Sign Installation Manual	Describes the electrical and mechanical installation of cased AlphaEclipse 2500 and 2600 signs.
9708-8081G	AlphaNET 3.0 User Manual	This document shows how to install and use AlphaNET version 3.0 software to create and send messages to signs. Numerous examples are provided.

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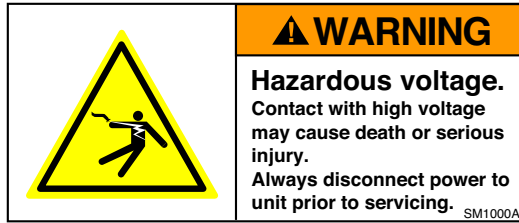
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Safety

Warnings and cautions



Preventing electrostatic discharge damage

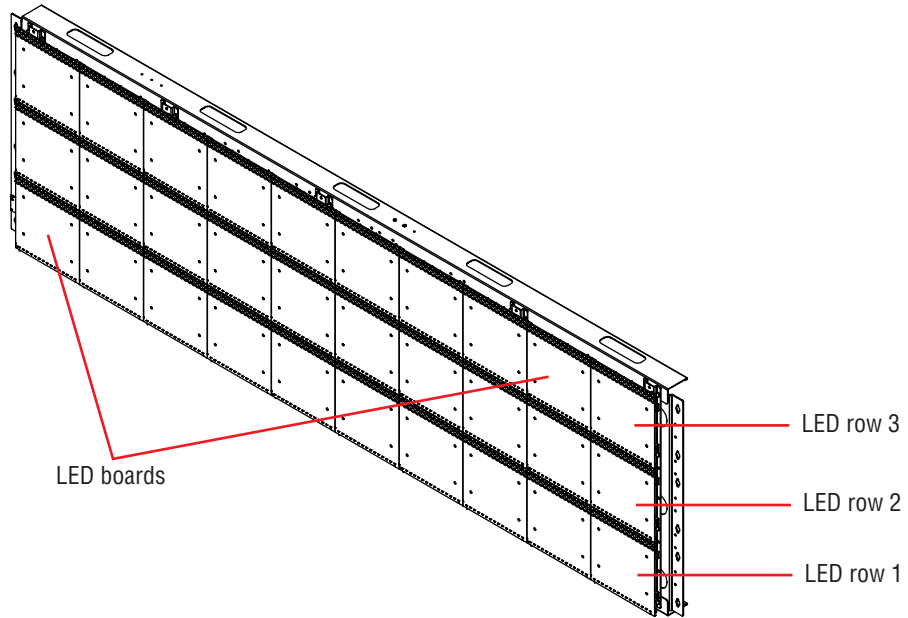


Alpha signs contain components that may be damaged by electrostatic discharge, or static electricity. To prevent this from happening, follow the guidelines in Adaptive TechMemo 00-0005, "Preventing Electrostatic Discharge (ESD) Damage," available on our Web site at <http://www.adaptivedisplays.com>.

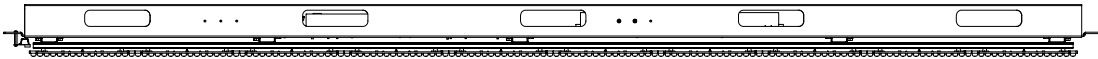
Equipment description

Top, front, and side views

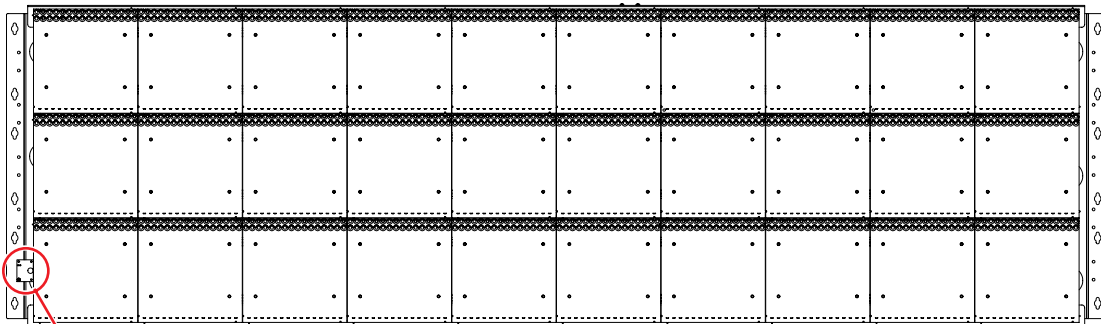
160 x 48 sign shown



Top view

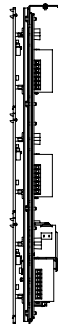


Front view

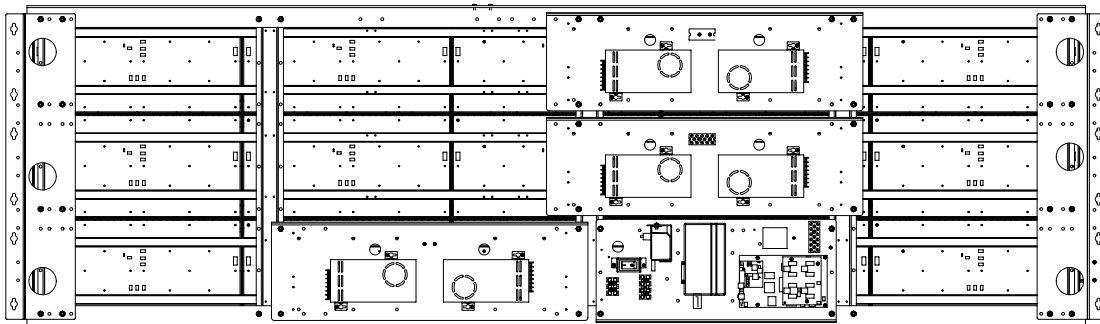


Photocell — used to dim the LED boards.

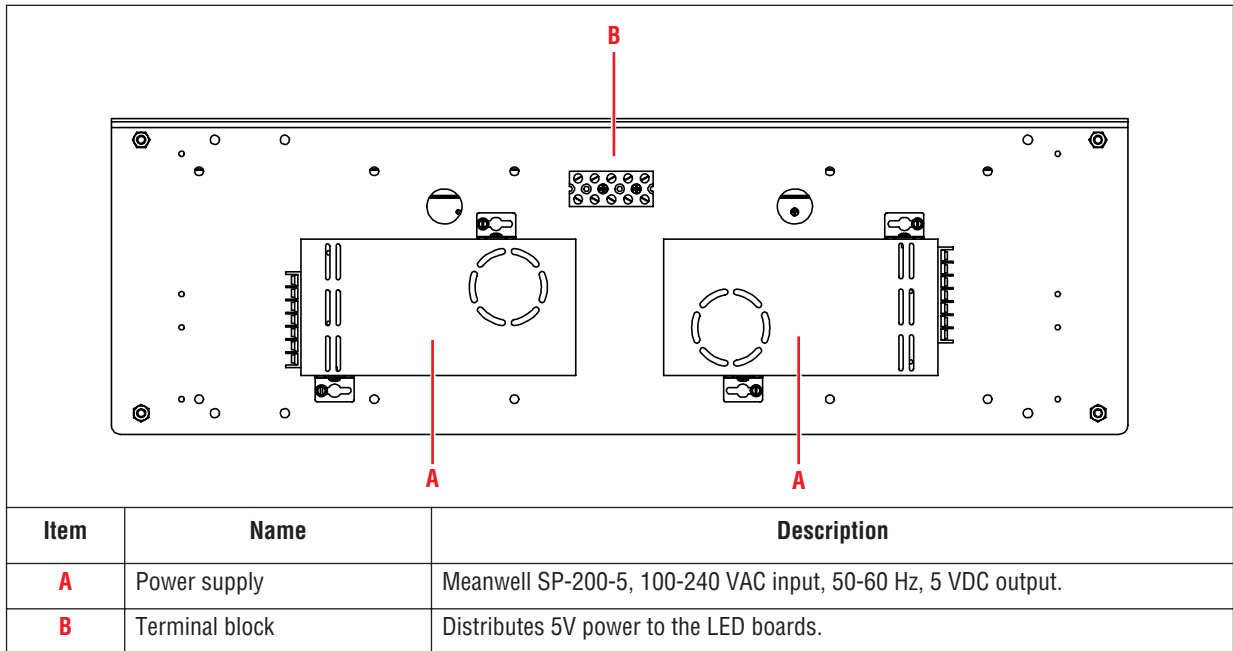
Side view



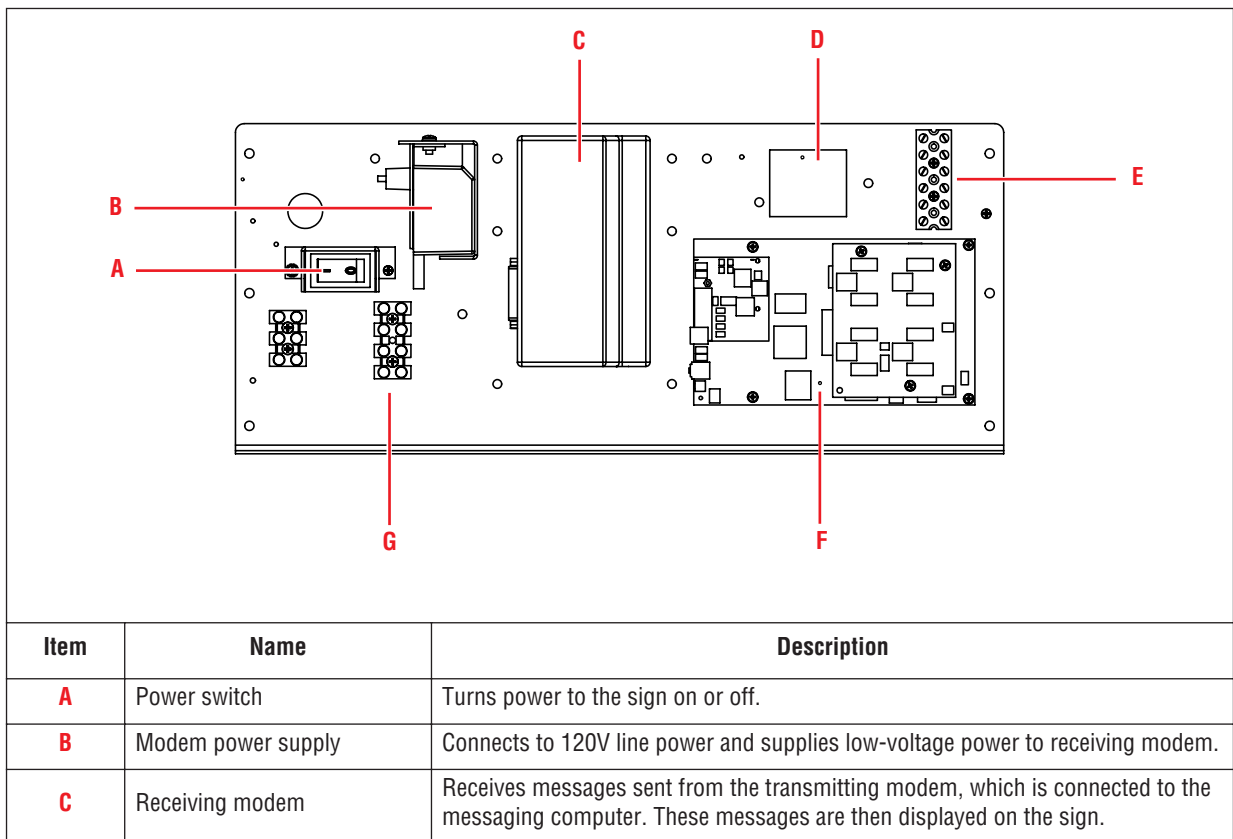
Back view

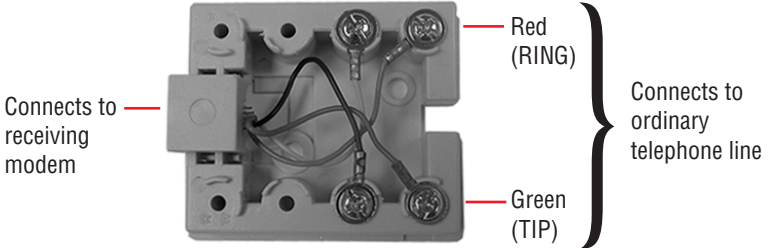




Power supply panel

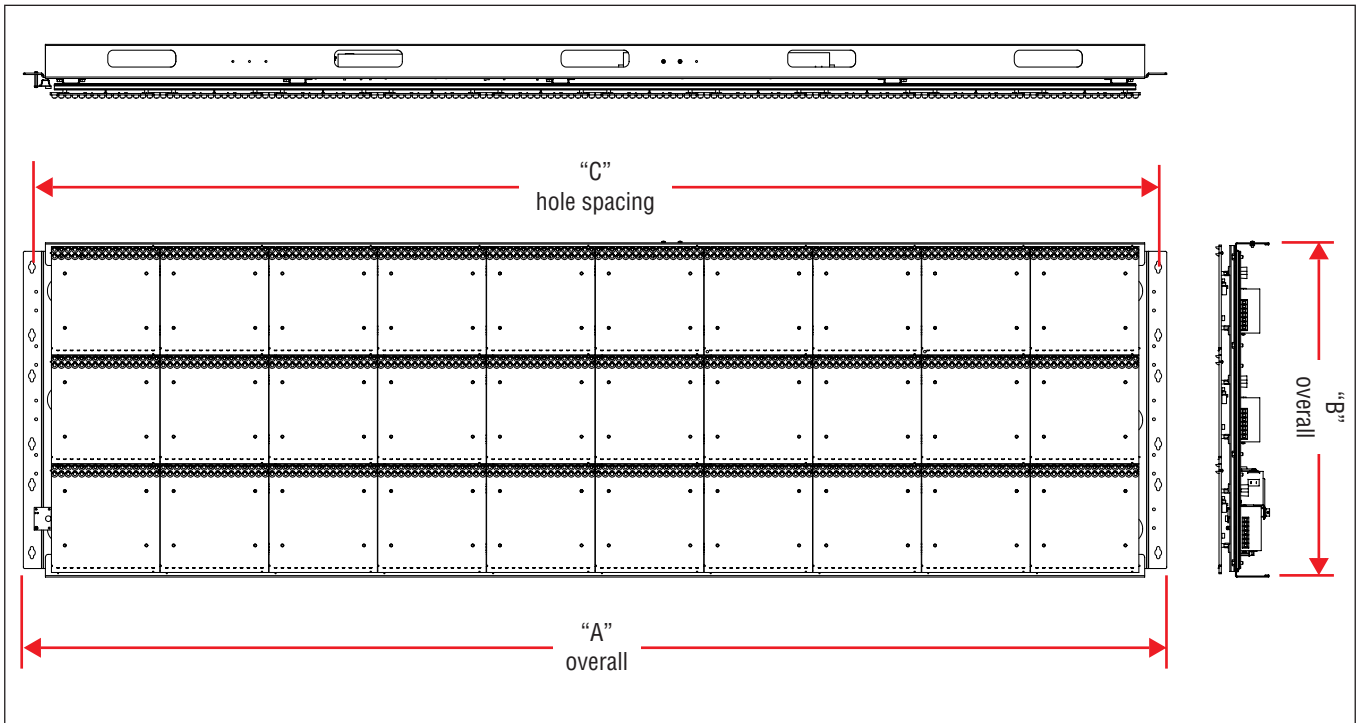


Main panel



<p>D</p>	<p>Telephone service hookup</p>	<p>Connects to the receiving modem and an ordinary telephone line.</p> 
<p>E</p>	<p>Serial I/O terminal block</p>	<p>Used to connect an RS232 or RS485 network to the sign:</p> 
<p>F</p>	<p>Controller board</p>	<p>Controls sign operation. (For more information, see the AlphaEclipse™ 2500/2600 Sign Installation Manual, pn 9711-7001F.)</p> 
<p>G</p>	<p>120V terminal block</p>	<p>Distributes 120V voltage to the power supplies.</p>

Technical specifications

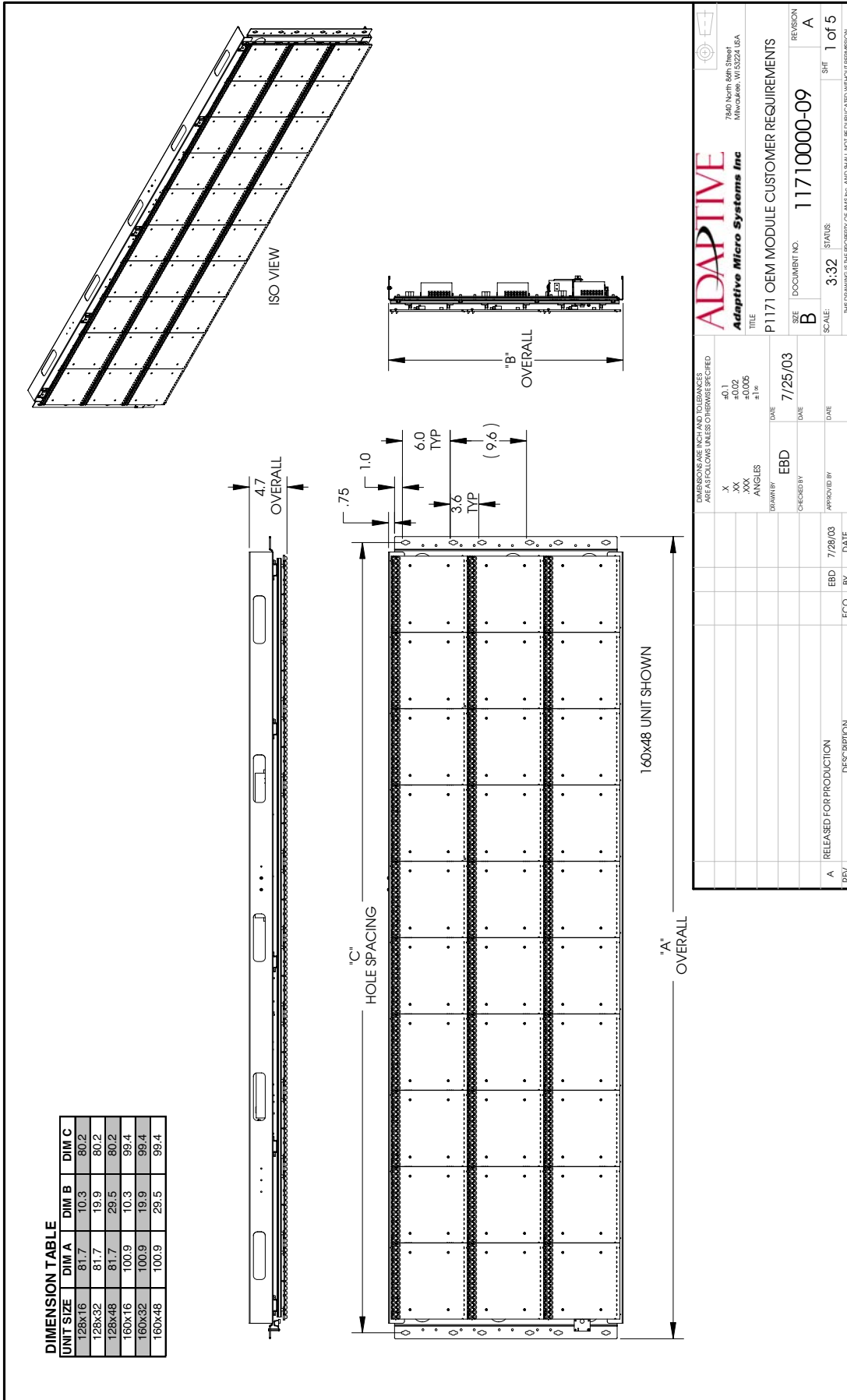


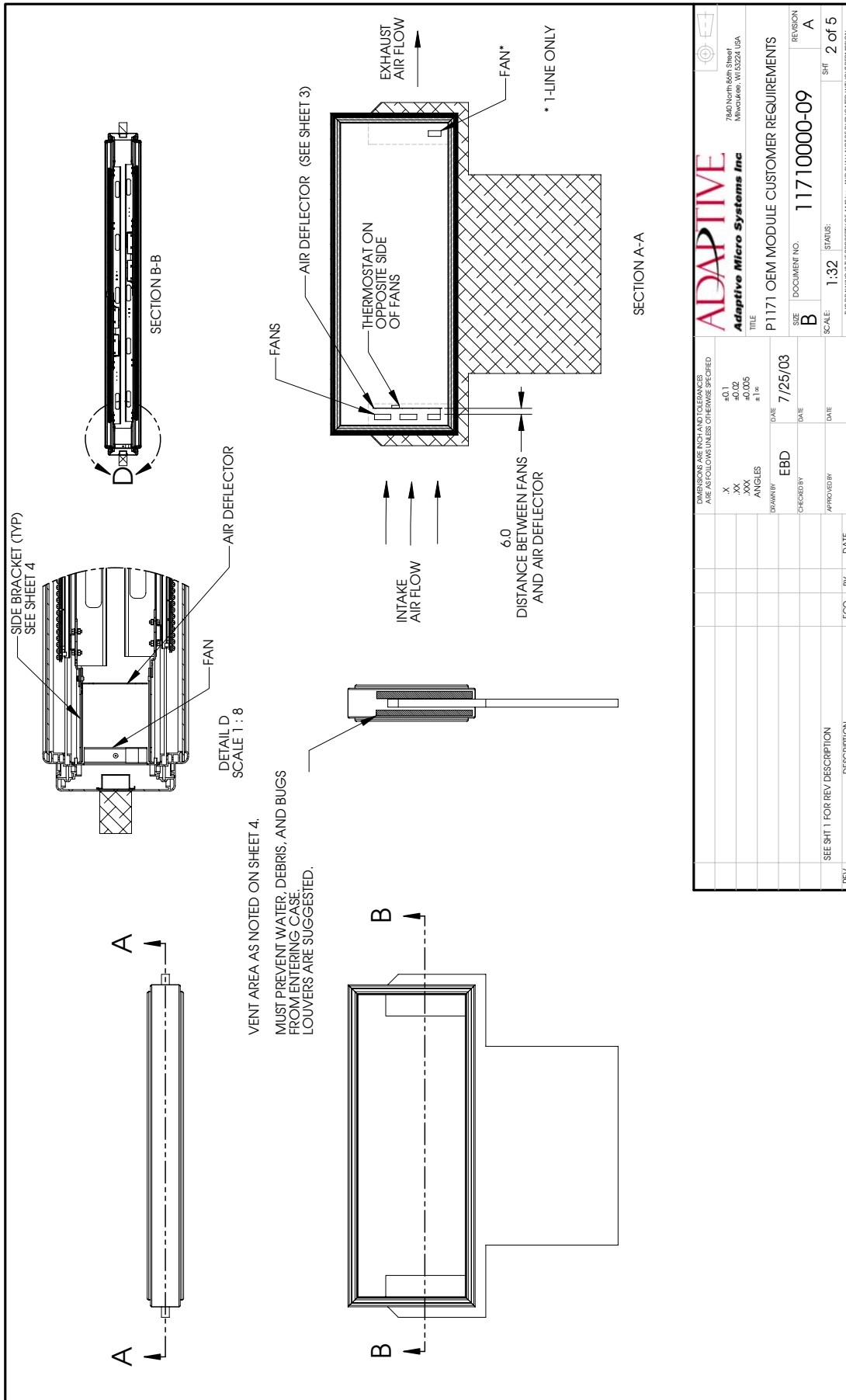
Sign size (columns x rows)	Dimensions (inches)			Weight (approx. in pounds)	Input current (amps @ 120V)	LED boards	Power supplies	Main panels	Power supply panels	Recommended number of cooling fans
	"A"	"B"	"C"							
128 x 16	81.7	10.3	80.2	85	2.16	4	2	1	1	2*
128 x 32	81.7	19.9	80.2	115	4.48	8	3	1	2	2
128 x 48	81.7	29.5	80.2	130	6.87	12	4	1	2	3
160 x 16	100.9	10.3	99.4	105	2.68	5	2	1	1	2*
160 x 32	100.9	19.9	99.4	135	5.51	10	4	1	2	2
160 x 48	100.9	29.5	99.4	150	8.42	15	5	1	3	3

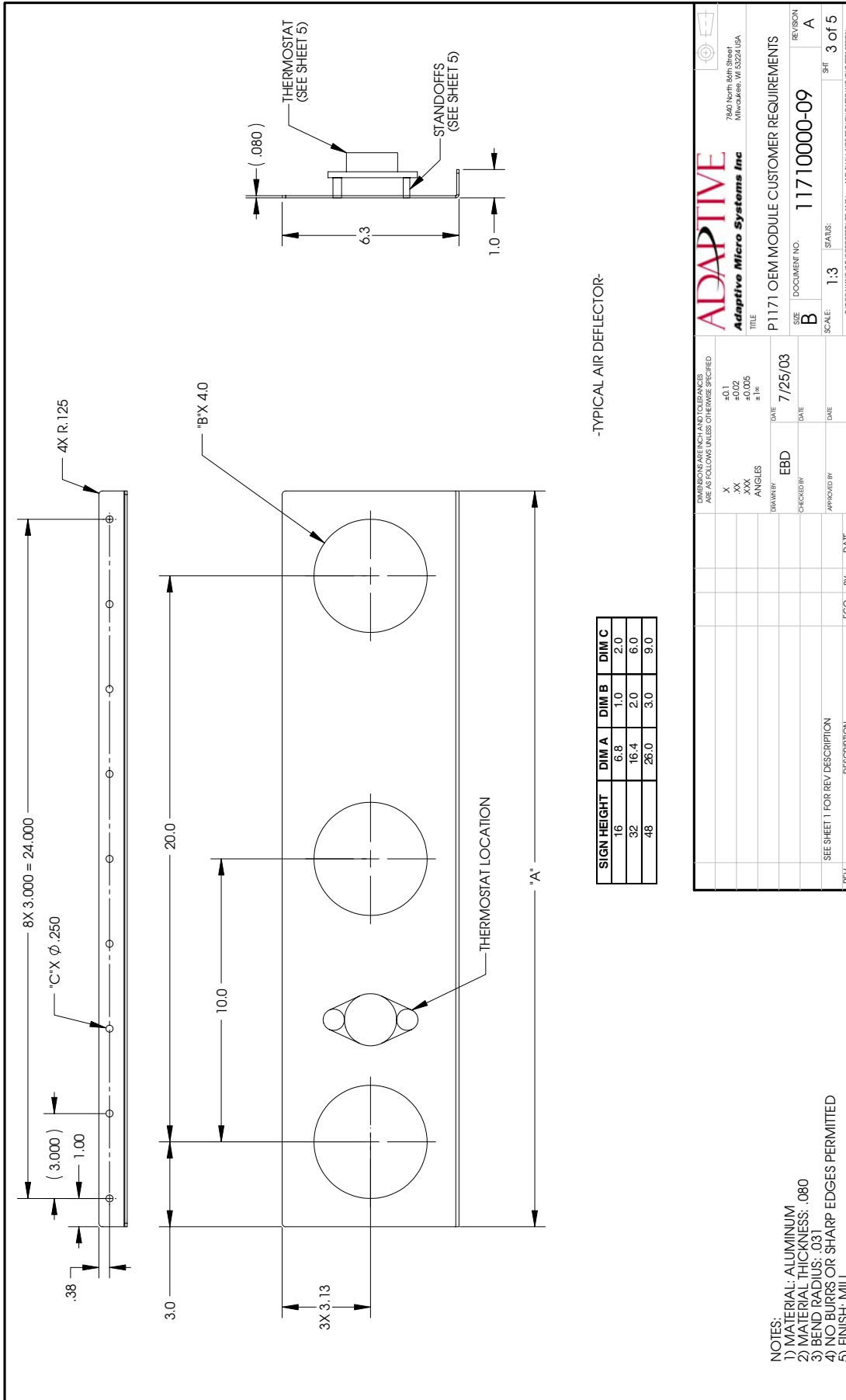
* For 1-line units, mount a fan on one end of the module to push air in and mount the other fan on the opposite end of the module to pull air out.

Customer requirements

- Install the recommended number of cooling fans (see "Technical specifications" on page 7).
NOTE: Fans should be wired to a separate circuit and *not* to the sign module.
- Install the sign module as specified in the following Adaptive drawings 11710000-09 (five sheets).







-TYPICAL AIR DEFLECTOR-

SIGN HEIGHT	DIM A	DIM B	DIM C
16	6.8	1.0	2.0
32	16.4	2.0	6.0
48	26.0	3.0	9.0

- NOTES:
 1) MATERIAL: ALUMINUM
 2) MATERIAL THICKNESS: .080
 3) BEND RADIUS: .031
 4) NO BURRS OR SHARP EDGES PERMITTED
 5) FINISH: MILL

ADAPTIVE
 Adaptive Micro Systems Inc
 7940 North 80th Street
 Milwaukee, WI 53224 USA

TITLE: P1171 OEM MODULE CUSTOMER REQUIREMENTS
 SIZE: B DOCUMENT NO.: 11710000-09 REVISION: A
 SCALE: 1:3 STATUS: SHF 3 of 5

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DIMENSIONS IN INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED:
 X ±0.1
 XX ±0.02
 XXX ±0.005
 ANGLES ±1°

DATE: 7/25/03
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REV.	DESCRIPTION	ECO	BY	DATE
	SEE SHEET 1 FOR REV DESCRIPTION			

