

ADAPTIVE INDUSTRIAL DISPLAY PRODUCT SELECTION GUIDE

ONE LINE DISPLAYS



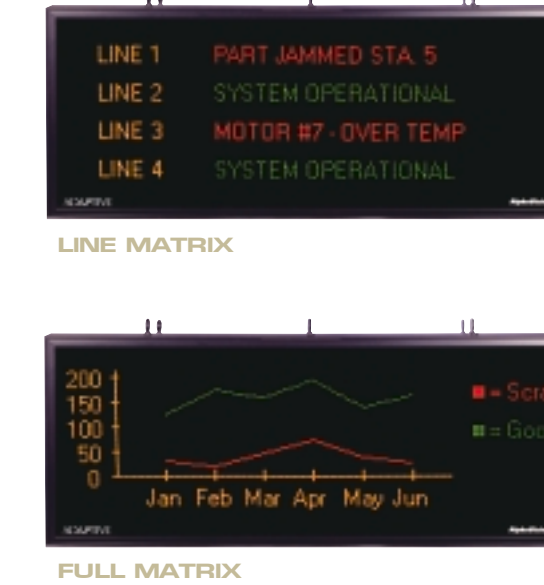
FOUR+ LINE DISPLAYS



ALPHAVISION DISPLAYS - CHARACTER MATRIX



ALPHAVISION PC DISPLAYS - LINE & FULL MATRIX



LOBBY / OUTDOOR DISPLAYS



HARDWARE INTERFACE



Alpha Ethernet Adapter

1. Alpha Ethernet Adapter
2. MSS100 (100BaseT)
3. MSS485 (10BaseT)

Easily connect to your LAN via TCP/IP Networks with Adaptive software products: ActiveX and AlphaNET.

Simple configuration CD included. The Alpha Ethernet Adapter (1) mounts on the back of an Alpha display and is powered by the display.

SPECIFICATIONS:

Product Brochure Part Number:
• 9708-8098A

Case Dimensions:
• 3.75"L x 1.0"H x 2.5"D (1)
• 3.75"L x 1.0"H x 2.5"D (2)
• 6.25"L x 1.0"H x 4.25"D (3)

Approximate Weight:
• 6.5 oz (1,2)
• 14 oz (3)

Operating Temperature:
• 5° to 50° C

Humidity Range:
• 10% - 90% Noncondensing

Network Input:
• 10BaseT RJ45/CAT5/HUB network (1)
• 100BaseT RJ45/CAT5/HUB network (2)
• 10BaseT RJ45 (3)

Output:
• RS232 (1,2)
• RS485 (3)

Power:
• Powered by display (1)
• 110VAC Adapter (2,3)

Mounting:
• Velcro, on display back (1)
• Stand alone (2,3)

Warranty:
• 1yr. parts & labor, factory servicing

Display Products:	CLOCK	215C/R	220C	320C	330C	BIG DOT	9080C	9120C	9160C	9200C	9240C	2.1" CM	1.4" CM	FULL MATRIX	LINE MATRIX	DIRECTOR	ECLIPSE 2500	ECLIPSE 3500	
Lines of Text/ Character Height/ Minimum Characters Per Line:	1 line / 4" / 5 char.	1 line / 2.1" / 15 char.	1 line / 2.1" / 20 char.	1 line / 3.1" / 20 char.	1 line / 3.1" / 20 char.	1 line / 4" / 13 char.	1 line / 9.6" / 9 char. 2 lines / 4.5" / 13 char. 3 lines / 3" / 9 char. 4 lines / 2.1" / 13 char. 5 lines / 1.5" / 16 char.	1 line / 9.6" / 13 char. 2 lines / 4.5" / 17 char. 3 lines / 3" / 13 char. 4 lines / 2.1" / 20 char. 5 lines / 1.5" / 24 char.	1 line / 9.6" / 17 char. 2 lines / 4.5" / 22 char. 3 lines / 3" / 17 char. 4 lines / 2.1" / 33 char. 5 lines / 1.5" / 32 char.	1 line / 9.6" / 22 char. 2 lines / 4.5" / 22 char. 3 lines / 3" / 22 char. 4 lines / 2.1" / 40 char. 5 lines / 1.5" / 40 char.	1 line / 9.6" / 26 char. 2 lines / 4.5" / 26 char. 3 lines / 3" / 26 char. 4 lines / 2.1" / 40 char. 5 lines / 1.5" / 48 char.	lines: 6, 8, 10, or 12 Characters per line: 32, 40, or 48 (12 sizes)	lines: 6, 8, 10, or 12 Characters per line: 32, 40, or 48 (12 sizes)	160 x 48 pixels to 384 x 176 pixels	3 lines / 4" / 20 char. to 8 lines / 4" / 40 char.	8 lines / 1.4" / 16 or 24 char.	75' / 20m	7' to over 700' / 2-213m	350' to 1100' / 107-334m
Maximum Viewing Distance:	200' / 60m	100' / 30m	100' / 30m	150' / 45m	150' / 45m	200' / 60m	up to 480' / 146m	up to 480' / 146m	up to 480' / 146m	up to 480' / 146m	up to 480' / 146m	100' / 30m	75' / 20m	100' to 600' (depends on character size)	200' / 60m	75' / 20m	7' to over 700' / 2-213m	350' to 1100' / 107-334m	
*Pixel Colors:	red	red or tri-color	tri-color	tri-color	tri-color	tri-color	tri-color	tri-color	tri-color	tri-color	tri-color	tri-color or hi-bright red	tri-color or hi-bright red	tri-color	tri-color	tri-color	red or amber	red or amber	
Center to Center Pixel Spacing (pitch):	NA	0.3"	0.3"	.45"	.45"	0.57"	0.3"	0.3"	0.3"	0.3"	0.3"	0.3"	0.2"	.3"	0.57"	0.2"	.45"	1.37"	
Messages Stored or Available Memory:	NA	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	81 msg.	32 MB RAM	32 MB RAM	26 msg.	81 msg.	81 msg.	
Display Dimensions / LxH (Inches):	NA	27" x 2.1"	36" x 2.1"	54" x 3.1"	24" x 2.1"	45.6" x 4"	24" x 9.6"	36" x 9.6"	48" x 9.6"	60" x 9.6"	72" x 9.6"	1.82" x 3.3" per character	1.22" x 2.21" per character	various sizes	various sizes	16 char--19" x 16.8" 24 char--27.5" x 16.8" 16 char--48.26 x 42.67 24 char--69.65 x 42.67	various sizes	various sizes	
Display Dimensions / LxH (cm):	NA	68.6 x 5.3	91.4 x 5.3	137.2 x 7.9	61 x 5.3	115.8 x 10.16	60.9 x 24.4	91.4 x 24.4	121.9 x 24.4	152.4 x 24.4	182.9 x 24.4	4.6 x 8.3 per character	3.0 x 5.6 per character	based on display matrix	based on # of lines and # of char. per line	16 char--25.45" x 68.04" 24 char--35.03" x 68.04" 16-64.64 x 172.82 24 char--88.97 x 172.82	various sizes	various sizes	
Case Dimensions / LxHxD (Inches):	13.5" x 7.1" x 2.2"	28.9" x 4.5" x 2.1"	37.7" x 3.8" x 2.9"	57.4" x 5.5" x 3.8"	84.4" x 5.5" x 3.8"	49" x 4.25" x 6.25"	28" x 12" x 2.2"	40" x 12" x 2.2"	52" x 12" x 2.2"	64" x 12" x 2.2"	76" x 12" x 2.2"	based on # of lines and # of char. per line	based on # of lines and # of char. per line	varies based on size	varies based on size	30-95 lbs. (14-43 kg)	60-240 lbs. (27-109 kg)	140-590 lbs. (64-268 kg)	
Case Dimensions / LxHxD (cm):	34.3 x 18 x 5.6	73.4 x 11.4 x 5.3	95.7 x 9.6 x 7.3	145.8 x 14 x 9.7	214.3 x 14 x 9.7	124.5 x 16 x 11	71.1 x 30.4 x 5.5	101.6 x 30.4 x 5.5	132 x 30.4 x 5.5	162.5 x 30.4 x 5.5	193 x 30.4 x 5.5	varies based on size	varies based on size	varies based on size	varies based on size	30-95 lbs. (14-43 kg)	60-240 lbs. (27-109 kg)	140-590 lbs. (64-268 kg)	
Approximate Weight (lbs. & kg):	1.6 lbs. (.73 kg)	7 lbs. (3 kg)	5 lbs. (2.1 kg)	12.5 lbs. (4.7 kg)	17 lbs. (7.7 kg)	12.25 lbs. (5.6 kg)	18 lbs. (8.19 kg)	23 lbs. (10.4 kg)	31 lbs. (11.8 kg)	36 lbs. (16.3 kg)	41 lbs. (18.6 kg)	varies based on size	varies based on size	varies based on size	varies based on size	30-95 lbs. (14-43 kg)	60-240 lbs. (27-109 kg)	140-590 lbs. (64-268 kg)	
Case Material:	ABS (Plastic)	aluminum	aluminum	aluminum	aluminum	ABS (Plastic)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum--front serviceable	aluminum--front serviceable	aluminum--front serviceable	aluminum--front serviceable	aluminum	aluminum - front serviceable	aluminum - front serviceable	
Ratings: NEMA/IP	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 12 design	NEMA 12 design	NEMA 1	NEMA 3R	NEMA 3R	
Power:	120 VAC	120 VAC 60 Hz or 230 VAC 50 Hz Adapter	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	120 VAC 50/60 Hz or 230/240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	120 VAC 60 Hz or 230 VAC 50 Hz Adapter	120 VAC 60 Hz or 230 VAC 50 Hz Adapter	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	85-265 VAC, 47-63Hz	120/240VAC, 50/60 Hz	120 VAC 60 Hz or 230 VAC 50 Hz Adapter	
Operating Temperature:	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C	-40° to 55° C	-40° to 55° C	
Configuration Software Available: [A=AlphaNET AX=Alpha ActiveX AVX=AlphaVision PC ActiveX]	NA	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	A / AX	AVX	AVX	A / AX	A / AX	A / AX	
Product Brochure Part Number:	9703-3003B	9704-0023	9701-4002	9700-0030A	9700-0030A	9703-8003D	9711-4203	9711-4203	9711-4203	9711-4203	9711-4203	9711-2112	9711-2112	9711-2705	9711-2705	9702-2006	TBA	9711-6002B	
Communications Support:																			
**Ethernet:	no	yes	yes	yes	yes	yes	yes (built-in)	yes (built-in)	yes (built-in)	yes (built-in)	yes (built-in)	yes	yes	yes	yes	yes	yes	yes	no (modem)
RS232:	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
RS485:	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	

All displays are:

- 0-95% non-condensing, humidity
- All encased displays include mounting kit
- Interface with RS232/RS485.

- Agency Approvals: Listed to ANSI/UL 1950-Third Edition (US) and CAN/CSA-22.2 No.950-M89 (Canada).
Complies with EN 60950: 1992 (Europe) and AS/NZS 3260-1993 (Australia). FCC Part 15 Class A.
CE Marked.

* Tri-color: Capable of displaying red, green and amber.

**Requires an additional Ethernet Adapter unless otherwise stated ().

(All specifications are subject to change without notice, contact an Authorized Adaptive Distributor for detail)

SOFTWARE INTERFACES

Adaptive provides broad and powerful message management tools to help you get up and running fast.

<p>AlphaNET™</p> 	<p>APPLICATIONS:</p> <ul style="list-style-type: none"> • Safety messaging • HR communications • Multi-site message scheduling 	<p>FEATURES / BENEFITS:</p> <ul style="list-style-type: none"> • Schedule messages to display at different times, locations and days • Contains a counter feature to display minutes, hours and days • Message Emulator allows you to view messages before they are actually displayed • Allows user to have a network of displays via serial addressing, on-site RF, TCP/IP LAN, and modems • Enables user to use logos and graphics (bitmapped) 	<p>MINIMUM REQUIREMENTS:</p> <ul style="list-style-type: none"> • Windows® 95/98, Windows® NT Workstation • Use processor requirements for selected operating systems • 16MB of RAM • 10MB of hard disk space • CD-ROM drive • RS232 (Serial Port) or Ethernet TCP/IP • Use with Alpha Protocol
<p>Alpha ActiveX</p> 	<p>APPLICATIONS:</p> <ul style="list-style-type: none"> • HMI systems • Batch processes • Automotive assembly • Spreadsheets • Databases 	<p>FEATURES / BENEFITS:</p> <ul style="list-style-type: none"> • Display real-time production statistics • Broadcast event/alarm conditions • Controls text attributes such as color, font, flashing, etc. • Directly display your existing database messages • Easy to install and use • All options can be set programmatically at run time 	<p>MINIMUM REQUIREMENTS:</p> <ul style="list-style-type: none"> • Windows® 95/98, Windows® NT Workstation • Processor: Application dependent • RAM: Application dependent • 10MB of hard disk space • CD-ROM drive • RS232 (Serial Port) or Ethernet TCP/IP • Use with Alpha Protocol
<p>AlphaVision PC ActiveX Software</p> 	<p>APPLICATIONS:</p> <ul style="list-style-type: none"> • Use with any HMI software such as RSView™ • Use with Visual Basic™ • Use with Microsoft Office programs that support Visual Basic™ 	<p>FEATURES / BENEFITS:</p> <ul style="list-style-type: none"> • Picture Box - Create individual screens using lines, circles, squares, bitmaps, text and live variable updates • Screen Capture - Use ActiveX components to display areas of any ActiveX container screen 	<p>MINIMUM REQUIREMENTS:</p> <ul style="list-style-type: none"> • Windows® 95, 98, 2000, NT, XP • Pentium 120 Mhz or faster processor • RAM: Application dependent • 12M Hard disk space • CD-ROM drive • RS232 (Serial Port) or Ethernet • Use with AlphaVision PC pixel protocol
<p>AlphaVision PC Software Developer's Kit</p> 	<p>APPLICATIONS:</p> <ul style="list-style-type: none"> • Software tools provided to create custom programming • Develop proprietary protocols • Must be Windows C++ certified 	<p>FEATURES / BENEFITS:</p> <ul style="list-style-type: none"> • Supports Microsoft Visual C++ • Designed for system integration and OEMs for customization software 	<p>MINIMUM REQUIREMENTS:</p> <ul style="list-style-type: none"> • Consult factory



About Adaptive. . .

Since 1978, Adaptive Micro Systems, Inc. (Adaptive) headquartered in Milwaukee, WI, has been the leading worldwide manufacturer of integrated communication products, electronic LED message displays and communications software programs. Adaptive prides itself on setting the standards in the manufacturing of superior, electronic visual communication products and services.

Adaptive offers a full product line of standard and custom electronic messaging displays, assemblies, and components - for indoor or outdoor applications. These integrated messaging products for the communications industry, include several product families under the brand names: BetaBrite®, Alpha® and AlphaVision™ electronic LED message displays - available in a wide range of single and multi-line models. The software product line includes an extensive series of networking programs for industry-wide communications solutions including: AlphaNET™, Alpha® ActiveX and AlphaVision™ PC ActiveX.

ADAPTIVE
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ADAPTIVE
Adaptive Micro Systems Inc

INDUSTRIAL DISPLAY SPEED PRODUCT SELECTION GUIDE

4	C7-211H	19,095	409	0
5	C7-118	13,500	690	14,500
6				
7	C9-220	25,250	445	16,200
8	C7-211H	20,360	777	15,300

ITEM	ORDER	TO GO
C7-118	9,330	777
C7-202H	10,520	777
C7-211H	57,425	777
C7-218H	39,375	777
8-TBL	206,107,1997	01:43 PM

PHARMACEUTICAL

AUTOMOTIVE

FOOD PROCESSING

PRINTING

PAPER CONVERTING

MATERIAL HANDLING

METALS & MINING

PLASTICS

POWER UTILITIES

**PROVIDING A NEW LEVEL OF
VISUAL DISPLAY SOLUTIONS
TO THE AUTOMATION INDUSTRY**

WHATEVER YOUR APPLICATION

Factory Focus

"Visual factory," as it relates to today's automated communications, is the ability to instantly recognize *who, what, where, when* and *how* your plant's production status is at any given time.

"Factory focus" is important, because by having the critical information you need, when you need it, is power. Information accessed in real-time can significantly increase your overall profitability in the following four areas:

Efficiency

With the use of clearly displayed messages, time and expenses are reduced. By identifying areas of machine failure, downtime errors are quickly identified then resolved.

Productivity

By allowing productivity goals to be clearly set for plant operators, the tone for healthy competition and continuous improvement is set throughout the production facility.

Quality Assurance

In order to insure constant quality, critical information such as temperature, motor speed, and recipe data, must be routinely monitored. LED message displays provide instant access to this data clearly and efficiently.

Safety

A safe working environment for all employees is crucial in today's automation facility. With the instant reporting of safety information and hazard data by LED displays, employees and plant personnel are alerted, and accidents are deterred.

Why Adaptive?

Incorporated in 1980, Adaptive's strength revolves around our U.S. engineering, sales, manufacturing and support, coupled with our state-of-the-art ISO9002 manufacturing facility located in Malaysia. With more than 400 full-time employees worldwide, Adaptive continues to offer customers high quality products, systems and support at competitive prices. Adaptive is the only LED display company that builds the entire product, starting with LED silicon wafers. This gives our customers a tremendous cost advantage on the basic (and most expensive) component of an LED display.

Display Options - Adaptive provides a wide range of standard and custom product options for the display of your critical information. We offer the best quality displays with the most flexible, reliable information-gathering and display software in the industry.

Interface and Connectivity Options - Adaptive's broad line of hardware and software interface options insures that our display products can be easily and inexpensively integrated into most information systems. Standard network interfaces such as Ethernet, RS485 and RS232, combined with state-of-the-art drivers such as ActiveX controls, through HMI interfaces and a broad range of protocol implementations provide our customers with all of the tools necessary for simple, low-cost systems integration.

Quality, Support and Service - Our staff of engineers, draftsmen and technicians are dedicated to product development. Our experience and expertise in optics design, electronic design, software design and mechanical design, insures that every product is designed to meet the strictest quality standards. We have a worldwide distribution network to support our customers, as well as a dedicated in-house technical support team to help resolve technical, installation and application issues swiftly and effectively.

The combination of our experience, our reputation, large array of display and communication products, and worldwide support, has made Adaptive the preferred choice among automation manufacturers throughout the world.

ADAPTIVE
www.adaptivedisplays.com