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Adaptive can furnish quality Dynamic Message Signs that meets today’s MUTCD and NEMA TS-4 specifications.

For over a decade, Adaptive Micro Systems has provided the transportation industry with state-of-the-art LED based Dynamic Message Signs. Adaptive’s broad DMS product range covers virtually every messaging application from roadside (Intelligent Transportation Systems), to airport, to bus and rail.

Whether the specifications call for small pitch bus shelter displays or large format over-the-highway DMS systems, Adaptive can manufacture LED Displays in any character size, enclosure type, or LED color you require for your project.

Utilizing state-of-the-art diagnostic software and LED display connectivity solutions, Adaptive offers its ITS, transit, and roadway customers the most advanced deployment of NTCIP displays and controller software in the industry.

Transportation is going places it never has before – and Adaptive builds the LED display solutions to keep it running smoothly through out the life of the DMS.

The long life and versatility of Adaptive LED displays make them ideal for a variety of Intelligent Transportation Systems requirements: over-the-road Dynamic Message Signs, variable speed limit signs, trailblazer signs, in Amber or full-color ITS display options.

Fully compliant with NTCIP and MUTCD standards, Adaptive LED displays are durable and designed to withstand the rigors of the roadway.

Adaptive provides the software to run your ITS as well, combining user-friendly interfaces with maximum control and compatibility with a wide range of other systems.

“Adaptive has always been wiling to try new things and works hand in hand with DOT and integration staff to provide us with excellent service and products.”

Donald J. Schell P.E.
Traffic Management Systems Engineering Supervisor - Wisconsin DOT
EMERGENCY DETOUR
WEST
INTERSTATE 696
Adaptive’s Approach to Heat Management

Outdoor displays are exposed to incredible extremes of heat, cold, wind, rain, fog, dust, and other environmental forces. Combine those exterior stresses with the interior stresses generated by a box full of heat-generating electronic components and you need to ask yourself, “How does a display adequately balance these influences, yet still offer reliable performance?”

Adaptive’s Environmental Solution

- **Adaptive Front Access enclosures** prevent heat from circulating throughout the unit or rising and collecting in one place at the top of the sign, overheating what components might be there.

- Adaptive’s newest technology designed to provide longevity to the LED’s and power supplies. In order to provide this high quality of DMS, Adaptive has designed the environmental controls to provide two levels of protection. Level one protection utilizes an internal mixing fan designed to turn on and cool the electronics. Level two protection is designed to augment the cooling when level one can not sufficiently cool the enclosure. This is accomplished at the high end of the temperature rating for the sign and exchanges outside air to bring the internal temperature down so that level one protection of internal mixing fans takes over.

- **Conformal-coated components** that can freely exchange any heat generated to inside the enclosure, unlike potted and insulated components which trap heat.

- **Gold-plated connectors** used for high-speed data lines offer greater efficiency, generate less heat, and insure long-term reliability.

- **Exclusive thermal/power management design of the PC board**, which wicks heat away from critical components and dissipates it readily and evenly throughout the rest of the enclosure.

- **Thermal Management Software** routines designed to protect critical components from damage due to over temperature conditions.
9700, 8700, 8600 Amber LED Series

Adaptive provides a unique system of LED pixel redundancy for high reliability of its display boards. The system is designed so that if any one LED failure occurs it does not cause the remaining LEDs in the same pixel or string of LEDs to go dark. This added value to the independent LED redundancy gives the extra time for repair of Dynamic Message Sign displays on routine maintenance schedules without the need of expensive non-scheduled repairs and lane closures. Adaptive constantly looks for ways to improve its digital displays’ contrast ratios and achieving optimum viewing characteristics with the least amount of brightness and power consumption.

Adaptive’s (9700 & 8700 series) Amber 18-inch character displays provide 8 LED’s per pixel on a typical Amber 2.6” pitch, which helps from over driving the LED’s to achieve 40 plus cds per pixel. Adaptive can keep the current to each LED to 20 mA and drive the LED’s at 60% to help extend the life of the LED 10-plus years of continuous operation. Adaptive’s (8600 series) Amber 12-inch character display utilizes 6 LEDs per pixel achieving 30 plus cd per pixel, keeping the current at 20 mA and driving the LEDs below 70% capacity which in turn helps extend the life of the LEDs.
AlphaXpress 8600 Series

AlphaXpress 8600 DMS Series

Arterial Dynamic Message Sign that meets today’s MUTCD standards

AlphaXpress 8600 is the successor of the 8700 series with its proven track record for over 10-years, designed for Arterial and Highway applications using the MUTCD and NEMA TS-4 standard as its design guide.

Standard Key Features

• NEMA TS-4 compliant
• MUTCD compliant
• 24V Redundant power supplies
• $30^\circ$ LED viewing (35Cd per 6 LEDs)
• Front access to individual cabinets and key components
• Independent LED circuitry — if one LED fails, others on the same string will not be affected.
• NTCIP V2 hardened controller
• Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option
ONE LINE

<table>
<thead>
<tr>
<th>PIXEL LAYOUT</th>
<th>UNIT DIMENSIONS</th>
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<tbody>
<tr>
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TWO LINES

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THREE LINES

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</table>

Independent LED circuitry — if one LED fails, others on the same string will not be affected

Front access to key components

Powder Coated removable border panels

Outside air exchange for cooling in extreme conditions

120 mph wind frame

Redundant TS-4 Power Supply. 24 volt

Independent LED circuitry — if one LED fails, others on the same string will not be affected

Front access to key components

Powder Coated removable border panels

Outside air exchange for cooling in extreme conditions

120 mph wind frame

Redundant TS-4 Power Supply. 24 volt
AlphaXpress 8700 DMS Series

Front Access Modular Design - Dynamic Message Sign

Built to withstand the worst that the elements and the roadway can deliver, the 8700 series of Dynamic Message Signs from Adaptive Micro Systems has been designed to maximize performance and minimize maintenance.

Adaptive offers a wide range of custom configurations from Travel Times to Variable Pricing for Hotlanes applications all the way up to full matrix with the interchangeability in 18-inch displays.

Standard Key Features

- NEMA TS-4 compliant
- 24V Redundant power supplies
- Light Weight sign cabinets
- 30° LED viewing (40Cd plus per 8 LEDs per pixel)
- Front access to individual cabinets and key components
- Independent LED circuitry — if one LED fails, others on the same string will not be affected.
- NTCIP V2 hardened controller
- Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option
Independent LED circuitry — if one LED fails, others on the same string will not be affected

Front access to key components

Outside air exchange for cooling in extreme conditions

140 mph wind frame

24V Redundant TS-4 Power Supply

Powder Coated removable front face panels from any road damage

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**ONE LINE**

<table>
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<tr>
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**FOUR LINES**

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<tbody>
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<td>36</td>
<td>108</td>
</tr>
<tr>
<td>36</td>
<td>126</td>
</tr>
</tbody>
</table>
AX9700 Series AlphaXpress Walk-In DMS

Walk-In Access Makes Maintenance Fast and Easy!

If Dynamic Message Signs play a part over your roadway system, you know that they serve a critical role in keeping traffic running smoothly. You need a unit that requires minimal maintenance, and one that can be easily accessed for the fastest possible service.

The 9700 Series of DMS products from Adaptive meets this demand like no other. Housed in heavy-duty aluminum, for a 20 plus year lifespan, our displays can handle the worst that nature and traffic can dish out. And the walk-in design allows servicing to take place with minimal interruption and maximum safety.

Standard Key Features

• NEMA TS-4 compliant
• 24V Redundant power supplies
• 30° LED viewing (40cd plus per 8 LEDs per pixel)
• Walk-in service access to key components
• Independent LED circuitry — if one LED fails, others on the same string will not be affected.
• NTCIP V2 hardened controller
• Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option
<table>
<thead>
<tr>
<th>ROW</th>
<th>COLUMNS</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>MAXIMUM NUMBER OF LINES</th>
<th>CHARACTERS PER LINE</th>
<th>WEIGHT*</th>
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<tbody>
<tr>
<td>27</td>
<td>90</td>
<td>89.00&quot;</td>
<td>253.20&quot;</td>
<td>38.25&quot;</td>
<td>3</td>
<td>15 (5 x 7 font)</td>
<td>2900 lbs.</td>
</tr>
<tr>
<td>27</td>
<td>108</td>
<td>89.00&quot;</td>
<td>300.00&quot;</td>
<td>38.25&quot;</td>
<td>3</td>
<td>18 (5 x 7 font)</td>
<td>3400 lbs.</td>
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<tr>
<td>27</td>
<td>126</td>
<td>89.00&quot;</td>
<td>346.80&quot;</td>
<td>38.25&quot;</td>
<td>3</td>
<td>21 (5 x 7 font)</td>
<td>4000 lbs.</td>
</tr>
</tbody>
</table>

*Weights includes mounting I-beams. All weight specifications are approximations. Consult factory for more details.
**AX2000MM Series of Full Colored DMS Walk-in Signs**

Drivers respond much quicker to graphic images rather than text messages.

With the ever increasing traffic conditions, roadway distractions and reading highway advisory signs, Adaptive’s AX2000 full-color high-definition DMS is your solution! Providing simple MUTCD symbols and icons to convey traffic conditions over the roadways is more effective than providing standard text messages.

The AX2000mm Series Walk-in Signs proposed by Adaptive Display Solutions offers the following benefits and exciting features to the ITS community.

**Standard Key Features**

- NEMA TS-4 environmental rated
- MUTCD - Compliance
- Redundant 24V current sharing power supplies
- 30° LED viewing
- 12400 Cd per pixel
- Remote Firmware updates from HOST
- 20mm Pitch center to center spacing
- Walk-in service access to key components
- Compliant with the current version 3 of NTCIP
**AlphaExpress 2000 Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LED Pixel</strong></td>
<td>20mm pitch RGB</td>
</tr>
<tr>
<td><strong>LED Color</strong></td>
<td>24 bit and classic color support</td>
</tr>
<tr>
<td><strong>Matrix</strong></td>
<td>900ft - 1200ft</td>
</tr>
<tr>
<td><strong>Viewability</strong></td>
<td>Automatic Photo Cells</td>
</tr>
<tr>
<td><strong>Dimming</strong></td>
<td>120/240 VAC</td>
</tr>
<tr>
<td><strong>Controller</strong></td>
<td>Ethernet connectivity (RS232/422/485 optional)</td>
</tr>
<tr>
<td><strong>Service Access</strong></td>
<td>Walk-in service access to key components</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-35° F to +165° F</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>12400 Cd/m²</td>
</tr>
<tr>
<td><strong>Design Capabilities</strong></td>
<td>255 graphic capacity</td>
</tr>
<tr>
<td><strong>Pixel Out</strong></td>
<td>255 changeable message capacity</td>
</tr>
<tr>
<td><strong>Detection</strong></td>
<td>15 font capacity</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Remote update of controller firmware NTCIP V3</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>All different sign sizes in this series</td>
</tr>
<tr>
<td></td>
<td>have interchangeable components</td>
</tr>
<tr>
<td></td>
<td>Single controller design</td>
</tr>
<tr>
<td></td>
<td>Fast message activation</td>
</tr>
<tr>
<td></td>
<td>Flexible I/O configurations</td>
</tr>
</tbody>
</table>

**Additional Details**

- **Humidity Sensor**: NEMA Standards - W7-42 Section 2 Environmental Requirements.
- **Power Supply monitoring**: NEMA Standards - TS-4 Section 2 Environmental Requirements.
- **Controller Location**: Ethernet connectivity.
- **Ventilation**: Forced Air Ventilation System.
- **Dimensions**: 106” H x 364” W x 38” D.
- **Weight**: 4500 lbs - Not including Mounting Beams.
- **Weight of Mounting Beams**: 300 lbs - Maximum for Fixed Tilt.
- **Sign Cabinet**: 12400 candelas/m².
- **LED Color**: High-intensity LED.
- **LED Pixel**: 20mm pitch RGB.
- **Controller**: Ethernet connectivity (RS232/422/485 optional).
- **Service Access**: Walk-in service access to key components.
- **Operating Temperature**: -35° F to +165° F.
- **Brightness**: 12400 Cd/m².
- **Design Capabilities**: 255 graphic capacity.
- **Pixel Out**: 255 changeable message capacity.
- **Detection**: 15 font capacity.
- **Software**: Remote update of controller firmware NTCIP V3.
- **Special Features**: All different sign sizes in this series have interchangeable components.
- **Controller Location**: Ethernet connectivity.

**Diagram Details**

- Scale 1:1.5
- Display Matrix not shown for simplification of drawing view.
- Dimensions: 38.14” x 20mm (.805in).
- Weight: 24 bit and classic color support.
- Power: 120/240 VAC.
- Service Access: Walk-in service access to key components.
- Operating Temperature: -35° F to +165° F.
- Brightness: 12400 Cd/m².
AX2020MM Series of Arterial Signs

The AX2020 Series of Arterial Signs proposed by Adaptive Micro Systems offers the following benefits and exciting features to the ITS community.

Standard Key Features

- NEMA TS-4 environmental rated
- MUTCD - Compliance
- Redundant 24V current sharing power supplies
- 70° LED viewing
- 12400 Cd per pixel
- Remote Firmware updates from HOST System
- 20mm Pitch center to center spacing
- Front access service to key components
- Compliant with the current version 3 of NTCIP

Mackinaw Bridge Toll - Full Color DMS

Baltimore City Full Colored DMS
AlphaExpress 2020 Specifications

**LED Pixel** 20mm pitch RGB

**LED Color** 24 bit and classic color support

**Matrix** 100ft - 1200ft

**Viewability** Automatic Photo Cells with adjustable table

**Dimming**
- Power 120/240 VAC
- Controller Ethernet connectivity (RS232/422/485 optional)

**Service Access** Front Serviceable

**Operating Temperature** -35˚ F to +165˚ F

**Brightness** 12400 Cd/m²

**Design Capabilities**
- 255 graphic capacity
- 255 changeable message capacity
- 255 permanent message capacity
- 15 font capacity

**Pixel Out Detection**
- Foreground pixel test
- Background pixel test
- Individual LED issue detection
- Sub 500ms image disturbance during foreground pixel testing

**Software**
- Remote update of controller firmware

**Special Features**
- All different sign sizes in this series have interchangeable components
- Single controller design
- Fast message activation
- Flexible I/O configurations
AlphaXpress Variable Speed-Limit & Lane Control Signs Series

AlphaXpress Variable Speed-Limit & Lane Control Signs Series is the choice for the future of VSLS & LCS on the highways and Tollways with the required white background and black lettering designed for low maintenance with remote NTCIP V3 controller and TS-4 redundant power supplies mounted in ground cabinet.

Standard Key Features

- NEMA TS-4 Compliant
- MUTCD Road Symbols Sign compliancy
- Front access with & without polycarbonate face
- RGB – 30/70 degree viewing options
- NTCIP V2 Compliant
- NEMA 3R/4X cabinet options
- Leading industrial strength Eco friendly Powder Coating on front face aluminum door panels - Kynar available as an option
AlphaExpress 2080 Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>LED Pixel</strong></td>
<td>20mm pitch RGB</td>
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<tr>
<td><strong>LED Color</strong></td>
<td>24 bit and classic color support</td>
</tr>
<tr>
<td><strong>Matrix</strong></td>
<td>30/ 70 degrees</td>
</tr>
<tr>
<td><strong>Viewability</strong></td>
<td>Automatic photocells</td>
</tr>
<tr>
<td><strong>Dimming</strong></td>
<td>16x16 display matrix display 45 watts</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>Ethernet connectivity</td>
</tr>
<tr>
<td><strong>Controller</strong></td>
<td>Communicate using either UDP/TCP or both</td>
</tr>
<tr>
<td><strong>Multiple different network</strong></td>
<td>port assignments can be marked for central or local designation (RS232/422/485 optional)</td>
</tr>
<tr>
<td><strong>Service Access</strong></td>
<td>Front Serviceable</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-35°F to +165°F</td>
</tr>
</tbody>
</table>

**Brightness** 12400 Cd/m²

**Design** 255 graphic capacity

**Capabilities**
- 255 changeable message capacity
- 255 permanent message capacity
- 15 font capacity

**Pixel Out**
- Foreground pixel test
- Background pixel test

**Detection**
- Individual LED issue detection
- Sub 500ms image disturbance during foreground pixel testing

**Software**
- Remote update of controller firmware from host system

**Special Features**
- All different sign sizes in this series have interchangeable components
- Single controller design
- Fast message activation
- Flexible I/O configurations
- Up to 255 Digital I/O connections
- Up to 255 Analog I/O connections
AlphaXpress 2021 Trailblazer Series

Michigan Department of Transportation highway redirect solutions!

AX2021 Trailblazer was designed for Michigan Department of Transportation in the greater Detroit area. MDOT required a 12-inch white multi-direction arrow display with remote NTCIP controller and power supply installed in a 19-inch ground cabinet.

Adaptive provided a low-cost solution that would provide drivers the ability to be diverted from the freeway, due to highway closure, and re-routed to the surface streets. Which in turn would then be redirected to the next available on-ramp using multiple trailblazer signage installed along the surface streets.

Standard Key Features

- NEMA TS-4 compliant
- 16x16 20 mm display for 12 - inch arrows.
- Lightweight housing
- NEMA 3R Design with ventless cabinet
- NTCIP V3 hardened controller
- Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option

AlphaExpress 2021 Specifications

| LED Pixel | 20mm pitch RGB |
| LED Color | 24 bit and classic color support |
| Matrix | 30 degrees |
| Viewability | Automatic Photocells |
| Dimming | 16x16 display matrix display 45 watts |
| Power | NTCIP V3 - AX1200 mounted in ground cabinet |
| Controller | Communicate using either UDP/TCP or both |
| Multiple different network port assignments. Each port assignment can be marked for central or local designation (RS232/422/485 optional) |
| Service Access | Front Serviceable Access with polycarbonate aluminum door |
| Eco friendly Powder Coated front |
| Operating Temperature | -35° F to +165° F |
| Brightness | 12400 Cd/m² |
| Design Capabilities | 9 - Arrow graphic capacity |
| Pixel Out Detection | Foreground pixel test |
| Background pixel test |
| Individual LED issue detection |
| Sub 500ms image disturbance during foreground pixel testing |
| Software | Remote update of the NTCIP controller firmware from Host |
**AX1200 & AX1250 remote NTCIP controller/power supply:**

**AX1200 DMS 19-inch rack mounted remote cabinet controller.**

Adaptives controller is removed from the sign and is remotely mounted in the ground cabinet for simpler access to the NTCIP controller to perform diagnostics and troubleshooting. Safely, from the side of the highway, by connecting to either the Local port or Ethernet port the service technician can comfortably perform all commands from the comfort of a vehicle if desired.

**Standard Key Features**

- Distance from the sign to ground cabinet: 1600ft
- Access 1-6 DMS from the same ground cabinet controller
- Local RS232 and Host Ethernet Communication Ports
- NEMA TS4 Rated
- 19-inch rack mountable aluminum housing
- rear access for connectivity for remote power supply
- rear access for connectivity to DMS.

**AX1024 DMS 19” rack mounted remote cabinet 24 volt Redundant Power Supply.**

Adaptives 24V Power Supply is removed from the DMS and is remotely mounted in the control cabinet for simpler access for diagnostics and troubleshooting. Safely, from the side of the highway a technician can replace the power supply within 30 minutes without disrupting traffic. This option is primarily for Lane Control Signs, Variable Speed Limit Signs and Trailblazer Signs with limited access and required installation space.

**Standard Key Features**

- Power Supply can power a limited number of DMS
- NEMA TS4 compliant
- 19-inch rack mountable aluminum housing

Note 1: Not available for all sign sizes contact Adaptive for information.

Note 2: Max distance from the sign is dependent on sign type and size.
Adaptive Display Solutions Customer Service:

Adaptive Display Solutions’ holds customer service at the foundation of our organization and is woven into every experience we deliver to our customers. Serving people and companies at each step of the purchase process is our promise; with the goal of ensuring each customer realizes the full value in our products and services for current and future projects.

Features

• 24/7 phone support with call back within two hours on off-peak hours for warranty products
• 48 hour turn around on common Adaptive spare parts
• Pre-maintenance provided upon request with a 3-4 week lead time with a 1-3 year extended warranty proposal.
• Firmware updates provided on warrantied Adaptive ITS DMS with remote
• Firmware updates from host system or direct from Adaptive office
• Recommended spare parts packages for out of warranty DMS
• E-mail tech support on out of warranty DMS.
• On-site commissioning
• On-site training
• Online training thru web program for continued training support
About Adaptive

Founded in 1978, Adaptive Micro Systems LLC is a leading supplier of indoor and outdoor display solutions. The ALPHA® brand is the defacto industry standard for multiple indoor applications as diverse as state lotteries to manufacturing automation. Adaptive’s outdoor displays are fast becoming the popular choice for any outdoor dynamic display need from commercial advertising to integrated transportation information systems. Adaptive leverages its US, Malaysia and service capabilities to provide high value solutions and world-class customer support.

For more information contact Jessie Swinea at jessie.swinea@adaptivedisplays.com.