Mass Transit Use Cases

Indoor and Outdoor Signage Options from Adaptive Micro Systems
History of Adaptive Micro Systems

- Adaptive was established in 1978 in Milwaukee, Wisconsin
  - We own a 75,000 square foot Manufacturing and Administrative facility in Milwaukee
  - Our plant is certified to the latest 2015:ISO-9001 Standard
  - Our products are approved to the strictest level of NEMA, ETL and FCC parameters
  - We also market some UL/CuL and CE listed Product to our European Dealers and Clients
  - Our 60-Member Milwaukee Staff includes Product Design and R&D, Customer Service, Light Assembly, Sales and Technical Support

- LED “Face” assembly, Electronics packaging and some final assembly is done at our Company-Owned facility in Penang, Malaysia
  - Here we employ an 80-Member Staff of electronic manufacturing professionals
Outdoor LED Signage - Use Cases

For over a Decade, Adaptive has provided the Airport and Mass Transit industry with highly efficient and cost-effective LED-based Dynamic Message Signs. We would like to introduce you to some typical Use Cases that DFW may want to take advantage of for future projects:

Arterial and Airport Entry Signs

- What you will need to know about specifying an arterial or airport entry sign:

  - All Adaptive signs in this category meet NTCIP and MUTCD standards (National Transportation Communications and Manual on Uniform Traffic Control Devices)

Standard Features include:

- NEMA TS-4 environmental rated
- Redundant 24V current sharing power supplies
- 70º LED viewing
- High Brightness Displays (12400 Cd per pixel or 12,000+ Nits)
- Front access service to key components
Outdoor LED Signage - Use Cases

Arterial and Over-the-Highway Signs

These applications are normally satisfied with “Walk-In” enclosures like those featured here:

- Drivers respond more quickly to graphic images versus text messages, and with ever-increasing traffic conditions and driver-induced distractions, these Full-Color Dynamic Message Signs are the solution
- Providing simple MUTCD symbols and icons to convey traffic conditions is an effective way to communicate over the roadways

AlphaXpress 8700 Series with Front-Access Design

AlphaXpress AX2000 Full-Colored DMS Walk-In
Outdoor LED Signage- Use Cases

Monument and Side-of-Building Mounted LED Signs

- These self-contained signs are perfect for general announcements as drivers approach a Terminal entrance, as in the attached photo
- They are also mounted to the exterior of Parking Lot structures for space availability and general traffic management announcements
- These signs are available in Primary and Primary/Secondary Face configurations

A Series Outdoor Sign at Jacksonville International Airport
Outdoor LED Signage- Use Cases

Parking Lot Applications
Adaptive offers Outdoor-Rated signage that can be mounted to the exterior of parking lot structures, and Semi-Outdoor Rated full-color signs for communicating priority messages within the actual parking structure:

- Display Daily Rates and Available spaces with Exterior Signage, utilizing the A-Series or StreetSmart fully-contained outdoor message centers
- Display Emergency Messages and Exit Routes with the Semi-Outdoor Rated 4000 Series Mass Notification (MNS) displays

MNS Series Display used in Stairwell

Cell Phone Lot at Jacksonville Airport
Indoor LED Signage- Use Cases

Indoor LED Airport Passenger Information Displays (PID’s)

• Adaptive LED displays boldly deliver the information that's critical to your airport passengers, such as arrival and departure gates and times, baggage carousel status and weather updates.

• Our indoor and outdoor display boards can also be automatically updated through an interface to your FIDS software package.

• Adaptive signage is found in airports throughout North America are flexible and dependable, and can be used for a variety of functions:
  – Capacity indicators and directional signage to parking facilities
  – Baggage claim displays
  – Ticket counter displays
  – Networked clocks in terminals
  – Arrival / departure boards
  – Gate and Ramp information displays

• We feature ADA-compliant solutions

Alpha 9000 Series at Denver International Airport
Indoor LED Signage- Use Cases

Indoor Fine-Pitch LED Signage for Passenger Information and Emergency Notification

- Adaptive features a host of full-color capable, indoor message displays that can be integrated into annunciation panel or kiosk configurations, or stand-alone wall, ceiling or hallway side-mount installations

Alpha J Series
At Pittsburgh International

DO NOT ENTER

Alpha 9000 Series full-matrix addressable, full-color display

Welcome Conventions and Visitors
Pittsburgh International Airport

Alpha 9000 Series Full-Color Display at New York City high-rise installation

FIRE ALARM ACTIVATED
- DO NOT USE ELEVATOR - PROCEED TO NEAREST STAIRS

Alpha J Series
At Pittsburgh International
Indoor LED Signage - Use Cases

LED Video Walls

- For the ultimate in color, contrast and brightness, Adaptive teams with LianTronics to deliver LED video wall solutions:
  - UL and FCC listed, with Indoor solutions beginning at 1.2 mm Pixel Pitch
  - Available in Outdoor configurations starting with 10mm Pixel Pitch
  - Both Front and Rear-Panel accessible models
  - Mounting options to include wall, ceiling, and floor with or without integrated credenza
  - Options to include Video Content Controller

People’s Hallway at Beijing International Airport
Indoor-Outdoor LCD Signage - Use Cases

Passenger Information Displays and Kiosk
Adaptive can offer custom solutions for sealed, outdoor LCD Passenger Information Displays and indoor monitors and Kiosk configurations.

Key Features include:
- IP65 enclosure ratings for outdoor installs
- Circulating Fans and fully air-conditioned panel options
- Direct Sunlight-readable (2500 Nits) displays
- Display sizes ranging from 42”-80” diagonal operating in Portrait or Landscape Mode
Supporting Documents

The following links will provide additional technical information and operating specifications for the LED displays featured in this Use Case document


- [https://www.adaptivedisplays.com/hubfs/AdaptiveDisplays/Alpha-Sales-Sheets4000%20RGB%20MNS-O%20POE.pdf](https://www.adaptivedisplays.com/hubfs/AdaptiveDisplays/Alpha-Sales-Sheets4000%20RGB%20MNS-O%20POE.pdf) — For 4000 MNS PoE Series Airport Emergency Messaging applications

- [https://cdn2.hubspot.net/hub/160781/file-3132614383-pdf/docs/a-series_premier_16mm.pdf?t=1529000189889](https://cdn2.hubspot.net/hub/160781/file-3132614383-pdf/docs/a-series_premier_16mm.pdf?t=1529000189889) — For A Series Premier Parking Lot and Monument and Side-of-Building mounted applications

- [https://cdn2.hubspot.net/hub/160781/file-3132614373-pdf/docs/a-series_elite_7.8mm.pdf?t=1529000189889](https://cdn2.hubspot.net/hub/160781/file-3132614373-pdf/docs/a-series_elite_7.8mm.pdf?t=1529000189889) — For A Series Premier Parking Lot and Monument and Side-of-Building mounted applications

- [https://cdn2.hubspot.net/hubfs/160781/Alpha-9000i-RGB-m.pdf?t=1529000189889](https://cdn2.hubspot.net/hubfs/160781/Alpha-9000i-RGB-m.pdf?t=1529000189889) — For i9000 Series Indoor Passenger Information Display applications