

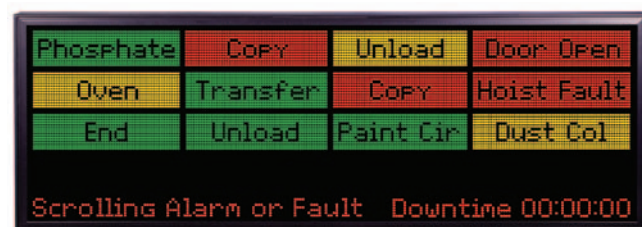
"After a decade of downsizing and reengineering most manufacturing companies are still searching for the formula to sustain business growth..."

### Visual Performance Measurements

Useful, accurate, current and visible production measurements are the scores required to empower your 5s, Six Sigma and lean teams to continuously improve your company's performance.

It is unlikely that tomorrow's customer will become less demanding. Today's suppliers must focus on satisfying their customers in an even more competitive marketplace. Satisfying the customer while making a profit requires extraordinary acts of flexibility, impeccable quality and asset efficiency.

Many companies are aggressively pursuing productivity programs; 5s, Six Sigma, Lean...to meet these requirements and are finding success in their ability to both satisfy the customer and profitably grow their businesses.



AlphaVision PC display

Companies that have fully embraced productivity improvement programs, such as lean, have reported dramatic improvements such as;

- > 40% - 50% Reduction in cycle time
- > 25% - 35% Reduction in set up time
- > 35% - 45% Reduction in down time
- > 30% - 40% Improvement in productivity

"If you can't see your data, does it really exist?"

### Keeping Score

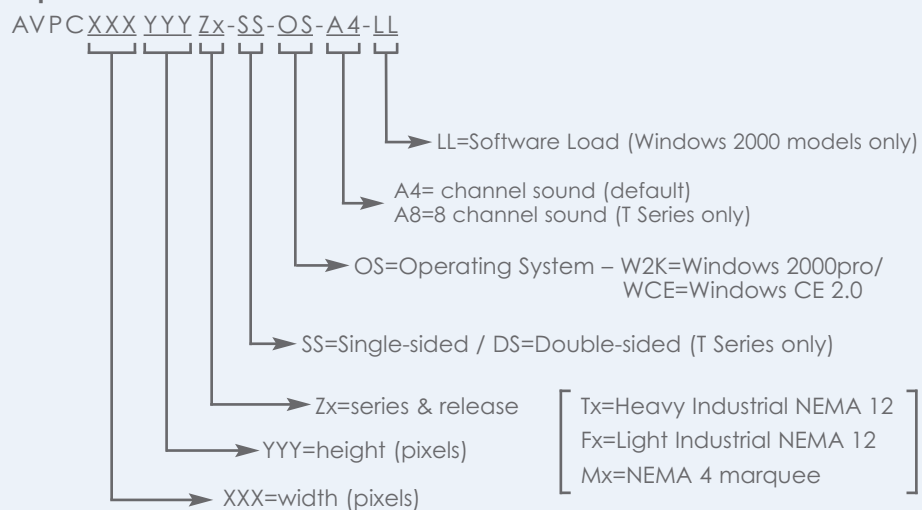
Adaptive LED Andon boards and message displays are your performance scoreboards. Selecting what information you need displayed is critical to any effective productivity improvement program.

Adaptive Micro System's Visual Workplace Solutions are designed to automatically and instantaneously display key performance indicators to the people that need them the most, your workforce.

**Others have and you can too.** As time goes on and your processes improve, you'll find that your teams will need new metrics and different data to take their next steps. Adaptive's flexible, real-time displays make it simple.



### AlphaVision PC Model Number Scheme:



### M Series - NEMA 4 AVPC Marquee

Model Number	Pixel Array	Display Area	Physical Size	Weight
AVPC240032M1-SS-W2K-A4	240W x 32H	72.0" x 9.6"	77.8" x 16.5"	125 lbs.

### F Series - Light Industrial

Model Number	Pixel Array	Display Area	Physical Size	Weight
AVPC160064F1-SS-W2K-A4	160W x 64H	48.0" x 19.2"	56.5" x 28.2"	129 lbs.
AVPC224112F1-SS-W2K-A4	224W x 112H	67.2" x 33.6"	75.7" x 42.6"	261 lbs.
AVPC256064F1-SS-W2K-A4	256W x 64H	76.8" x 19.2"	85.3" x 28.2"	195 lbs.
AVPC256096F1-SS-W2K-A4	256W x 96H	76.8" x 28.8"	85.3" x 37.8"	261 lbs.
AVPC256112F1-SS-W2K-A4	256W x 112H	76.8" x 33.6"	85.3" x 42.6"	294 lbs.
AVPC256128F1-SS-W2K-A4	256W x 128H	76.8" x 38.4"	85.3" x 47.4"	327 lbs.

### T Series - Heavy Industrial (ANDON)

Model Number	Pixel Array	Display Area	Physical Size	Weight
AVPC320128T2-DS-W2K-A4	320W x 128H	96.0" x 38.4"	104.5" x 47.4"	802 lbs.
AVPC320112T2-DS-W2K-A4	320W x 112H	96.0" x 33.6"	104.5" x 42.6"	721 lbs.
AVPC320096T2-DS-W2K-A4	320W x 96H	96.0" x 28.8"	104.5" x 37.8"	640 lbs.
AVPC320080T2-DS-W2K-A4	320W x 80H	96.0" x 24.0"	104.5" x 33.0"	559 lbs.
AVPC320064T2-DS-W2K-A4	320W x 64H	96.0" x 19.2"	104.5" x 28.2"	478 lbs.

### Processor Specifications

Windows CE models (WCE):	Windows 2000 models (W2K):	Sound Card (A4):
<ul style="list-style-type: none"> <li>Pentium Class National Geode</li> <li>GX1 300MHz</li> <li>10/100BaseT Ethernet</li> <li>3 x RS232 Ports; 1 x RS232/422/485 Port</li> <li>2 x USB</li> <li>Application memory writes directly drive the LED display</li> </ul>	<ul style="list-style-type: none"> <li>Intel Celeron 650MHz</li> <li>10/100BaseT Ethernet</li> <li>4 x RS232 Ports</li> <li>2 x USB</li> <li>20GB Rugged Laptop HardDrive</li> <li>SoundBlaster compatible audio output</li> <li>AVPC Windows Display Driver directly drives the LED display</li> </ul>	<ul style="list-style-type: none"> <li>4 channels with 2 speaker connections per channel</li> <li>20W amplification built-in for each speaker</li> <li>Independent volume control for each speaker</li> <li>256 canned tunes stored on the sound card</li> <li>Each channel can play a different tune simultaneously</li> <li>Sound source can be software switched from Tunes to the processor</li> <li>SoundBlaster output</li> </ul>



# AlphaVision PC



ADAPTIVE

ADAPTIVE  
Connecting people, places and ideas



*"System flexibility was key to Boeing's decision to implement the AlphaVision PC. Convenient PC connectivity enables the AlphaVision PC to display data from laptops or PCs, including graphs, tables and charts from such familiar programs as excel."*

-Brian Bellevue, The Boeing Company



## AlphaVision PC Customized Factory Solutions

### NEMA 4 AVPC Models - 9240PC (M Series)

Our most compact AVPC display board. Designed for those applications that require a lightweight solution with a space-conserving footprint. At 125 pounds and 5.5" depth, the 9240 PC can be easily incorporated into most production locations. The versatile 240 X 32 pixel display area can display graphs and 1-5 lines of information.

1.5" to over 9" character sizes

Line	Part#	Total	Rejects%	Setup
1	AL-2846	1289	12%	28
2	CD-4522	989	8%	34
3	PQ-3323	2466	4%	40

#### NEMA 4 9240PC (M Series)

- .3" Pitch
- Tricolor LED with 8 shades
- 100,000 hours calculated MTBF (11+years)
- NEMA 4 Enclosure
- Bottom hinged front access door
- Non-glare polycarbonate lens

### Heavy Industrial Models - AlphaVision PC Full Matrix (T Series)

Adaptive's AVPC ANDON family offers sizes, features and capabilities that have been popularized by display board use in the automotive manufacturing industry.

- Available in 5 popular, large format sizes;
  - 320 pixels wide x 128 pixels high
  - 320 pixels wide x 112 pixels high
  - 320 pixels wide x 96 pixels high
  - 320 pixels wide x 80 pixels high
  - 320 pixels wide x 64 pixels high
- 120/220 volt auto-sensing AC 50/60 Hz current with external lockable disconnect
- Extensive music & sound capability- up to 8 music channels and 255 commonly recognized tunes

These sizes support up to 16 lines of data and character heights ranging from 1.5" to full screen height.

#### AVPC320128T2



AVPC320064T2

#### Heavy Industrial models (T Series)

- .3" Pitch
- Tricolor LED with 8 shades
- 100,000 calculated MTBF (11+years)
- NEMA 12 Enclosure
- 5° downward tilt to reduce glare
- Interior service light
- Designed for double-sided applications
- Top Hinged front access door with pneumatic struts
- Hinged interior display assembly with pneumatic struts
- Non-glare polycarbonate lens

### Light Industrial Models - AlphaVision PC Full Matrix (F Series)

A family of larger display boards engineered to accommodate virtually any display need. Designed for those applications with larger quantities of information with many users at greater viewing distances. Display sizes can range from 160-384 pixels wide to 48-256 pixels high (in 32 X 16 pixel array increments).

1.2" to over 60" character sizes



#### Light Industrial models (F Series)

- .3" Pitch
- Tricolor LED with 8 shades
- 100,000 hours calculated MTBF (11+years)
- NEMA 12 Enclosure
- Top Hinged front access door with pneumatic struts
- Top Hinged interior display assembly with pneumatic struts
- Non-glare polycarbonate lens
- 80Hz refresh rate to minimize display flicker
- 120° viewing angle



The AlphaVision series is a unique family of LED display boards that incorporate embedded PC technology. This eliminates the need for special software or proprietary protocols and greatly increases display capabilities while reducing integration costs.

AlphaVision PC display boards are providing a new level of convenience and flexibility for companies of all sizes...from Toyota, GM, Ford, Miller Brewing, Anheuser Busch and Boeing Aerospace to small molders, fabricators, bottlers and assembly operations.

#### No proprietary software

All models are available with either Windows CE or Windows 2000Pro operating systems installed. This allows for OPC, ODBC and DDE data transfer compatibility via hundreds of commercially available software packages.

#### Alarm annunciation

AVPCs can augment visual alarm displays via two different sound modes. Trigger sounds from a library of 255 preprogrammed tunes via the

integrated 16-bit Soundblaster/pro interface.

#### Simplified networking

On-board ethernet provides TCP/IP connectivity, the most commonly deployed physical network topology.

#### Client or Server flexibility

AVPCs can be configured as either a client or server based on customer preference. As a client, production data is polled from HMI workstations. As a server it shares data with other AVPCs or other Adaptive displays.

Picture your Windows® applications running where everyone can see them!



*"Adaptive's AVPC LED ANDON product line represents the state-of-the-art in automotive ANDON display board technology for viewability, connectivity and flexibility."*

-Richard Dahlstrom  
Corporate Vice President, McNaughton-McKay Electric Company

