

15"~19" X86-based Digital Signage Touch Panel PC

► AFOLUX All-in-One Touch Panel PC Series



AFL-15B-690
AFL-17B-690
AFL-19B-690

Digital Signage Touch Panel PC



**Dual
Independent
Display!**

AFL-690 touch panel PCs with a ATI graphic core and dual core CPU is an ideal high-performance digital signage solution for high-end graphic and video applications.

- 
High Definition Multimedia Solution
 HD Video, Hardware decoder support, Dual independent display
- 
New Performance Tuning Capabilities
 ATI graphic core build in for much better graphic
- 
Performance Improvements
 Dual Core CPU with dual video play ability



Choosing the Best Dynamic Multimedia Platform!



AFL-690 Digital Signage Touch Panel PC

DM-190GS Display Monitor





- Features:**
- 15"~19" TFT LCD with rigorous resistive touch screen allows users to easily operate the system
 - Two built-in speakers and one audio line-out extend voice functions for kiosk, gaming and advertising applications
 - Built-in Bluetooth module increases peripheral device connections
 - Optional HSDPA for the best mobile network solution
 - Selectable AT/ATX power mode
 - IEI exclusive iSMM system management module for system's auto diagnosis
 - Watchdog timer with automatic system restart function decreases maintenance costs and suitable for 24-hour service applications
 - IP 64 front panel protection



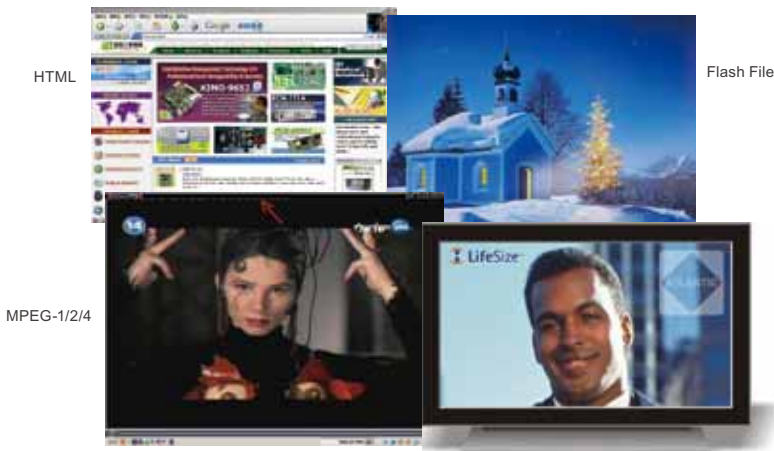
The Strongest X86-based Digital Signage Panel PC

AFOLUX digital signage panel PC AFL-690 series with AMD dual core processor offers high-performance computing with industrial-grade reliability and stability

RISC and x86 Digital Signage Comparison Table

	Content Format				Compatibility	Interactivity	Real Time Information	Image Quality
	Video Formant Support	Graphics Format Support	Others					
RISC-based Digital Signage 	Fewer	Fewer	-	Dual Mirror Display	Confined to specific program	-	-	Normal
AFL-690 Digital Signage Panel PC  WIN!	More	More (HTML, TIFF, RAW, Flash, Dynamic GIF)	Windows Media, Powerpoint	Dual Independent Display	Compatible with Windows based application program	Built-in touchscreen and bluetooth draw your customers in and keeps them involved	Wireless /GPRS/HSDPA	3D comb filter and noise reduction technology enhance more crystal-clear picture

Multiple Format Support



- Benefits :**
- Video and Display Perfection
 - Enhanced High-Definition viewing
 - The Perfect Multimedia Outlet for Digital Signage
 - True-to-Life Image Reproduction
 - Smoothest Video Playback
 - Universal Connectivity

Delivers the Stunning Clarity Image

AFL-690 digital signage touch panel PC series with Radeon™ X1250 3D Graphics Core through ATI Avivo™ technology to increase video quality. Avivo's revolutionary technologies come together to enable superior quality and High-Definition (HD) visual experiences on the PC.



- Capturing**
 - Automatically adjust its brightness and contrast.
 - Motion adaptive 3D comb filter, automatic color control, automatic gain control
 - Hardware noise reduction and edge enhancement technologies for better video playback quality
- Decode**
 - The GPU core supports hardware decoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization
- Encode**
 - Support hardware encoding of H.264, VC-1, WMV9, and MPEG-2 videos to lower CPU utilization
- Process**
 - Supports vector adaptive de-interlacing and video scaling to reduce jaggies, and spatial/temporal dithering, enabling 10-bit color quality on 8-bit and 6-bit displays during process stage

3D Comb Filter

The 3D Comb Filter is best used for still images, as it removes flickering and provides the most accurate onscreen image colors.



- Without 3D Comb Filter - 3D Comb Filter

Noise Reduction

Digital Noise Reduction is essential in effecting a pure digital display. This technology implements an algorithm to remove clamping noise; the result is a grain-free, crystal-clear picture.



- Without Noise Reduction - Noise Reduction

The Best Interactive Platform

1. Interactive Digital Signage

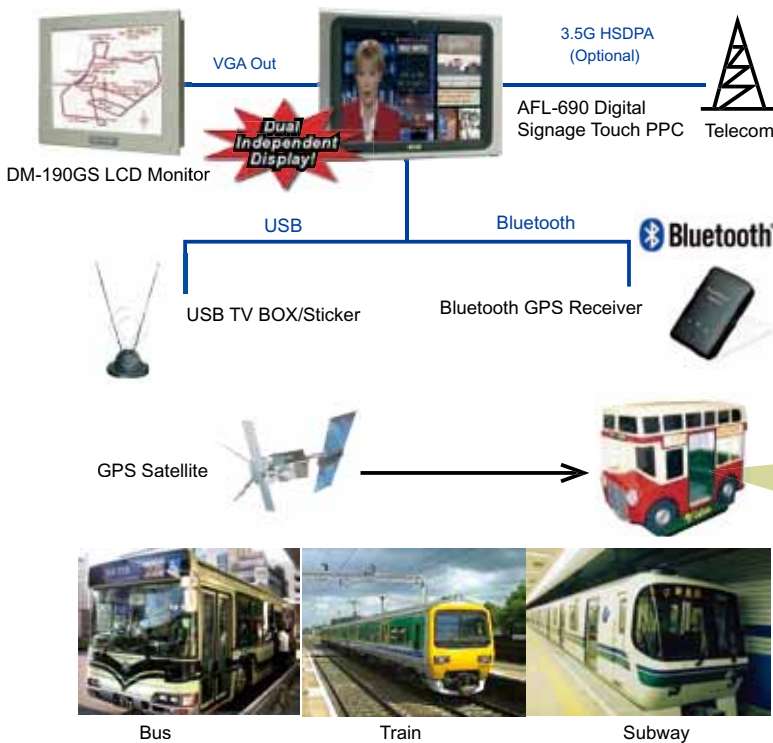
5-wire resistive touch screen

Interactive platform attracts people's attention. It draws your customers in and keeps them involved. Use it for product or service information, directories, check-in services and exhibit details so your customers have the information they need right at their fingertips .

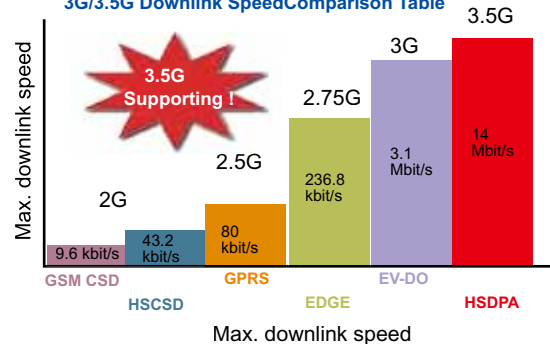


2. Vehicle Information System

With the help of HSDPA 3.5G communication, the AFL-690 digital signage touch panel PC series can do much more than you can imagine. Applications such as station information display in a moving bus and advertising in the subway, the AFL-690 digital signage touch panel PC enables you to advertise everywhere.



3G/3.5G Downlink Speed Comparison Table



Watch TV Channels

City Tour Route

HTML Browsing

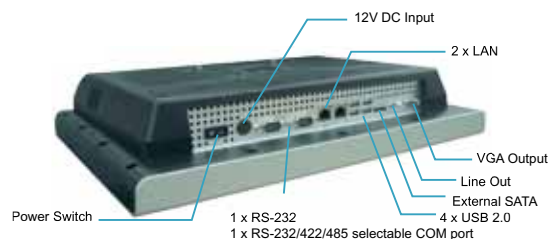
● Specifications



Model	AFL-15B-690	AFL-17B-690	AFL-19B-690
LCD Size	15"	17"	19"
Max Resolution	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m2)	350	300	300
Contrast Ratio	700:1	800:1	800:1
LCD Color	262K	16.7M	16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)
Viewing Angle (H-V)	140(H) / 125(V)	160(H) / 160(V)	160(H) / 160(V)
Backlight MTBF	50000 hrs	50000 hrs	50000 hrs
SBC Model	AFLMB-690EAM2	AFLMB-690EAM2	AFLMB-690EAM2
CPU	AMD Athlon™ 64 X2 Dual-Core Processor 5200+ (max.)		
Chipset	AMD 690E		
Memory	Supports one 200-pin 1.0 GB (max.) DDR2 SO-DIMM		
I/O Ports and Switches	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio	1 x External SATA 1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA port 1 x Audio
SSD	CF Type II	CF Type II	CF Type II
Watchdog Timer	Software programmables 1-255 sec. System reset.		
Audio	AMP 3W + AMP 3W	AMP 3W + AMP 3W	AMP 3W + AMP 3W
Expansion	1 x Wireless LAN Module (802.11 a/b/g/n) (PCIe mini card Interface)	1 x Wireless LAN Module (802.11 a/b/g/n) (PCIe mini card Interface)	1 x Wireless LAN Module (802.11 a/b/g/n) (PCIe mini card Interface)
HDD Drive Bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay
Optional GPRS Module(support GSM 850,EGSM 900,DCS 1800 & PCS1900)	Yes	Yes	Yes
Construction Material	ABS + PC Plastic front frame	ABS + PC Plastic front frame	ABS + PC Plastic front frame
LED Functions	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel	1 x Power ON/OFF LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall, Rack, Stand and Arm (VESA 100mm x 100mm)	Panel, Wall,Stand and Arm (VESA 100mm x 100mm)
Front Panel Color	Silver	Silver	Silver
Dimension (WxHxD) (mm)	394 x 309 x 74.6	428 x 350 x 76	470x 383 x 78.4
Operation Temperature (oC)	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD	0°C~40°C for HDD 0°C~45°C with CF card or SATA interface 2.5" SSD HDD
Storate Temperature (oC)	-20°C~60°C	-20°C~60°C	-20°C~60°C
Net Weight	5.8 Kg	5.8 Kg	6.2 Kg
IP Level (front panel)	IP 64	IP 64	IP 64
EMC	CE,FCC,CCC	CE,FCC,CCC	CE,FCC,CCC
Safety	UL,CB	UL,CB	UL,CB
Touch Screen	Resistive Type 5-Wire (touch controller IC is on board)	Resistive Type 5-Wire(touch controller IC is on board)	Resistive Type 5-Wire (touch controller IC is on board)
Power Adapter	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC	Power: 150W Input: 90VAC~264VAC @ 50/60Hz Output:12VDC
Power Requirement	12VDC	12VDC	12VDC

Fully Integrated I/O

AFL-15B-690, AFL-17B-690, AFL-19B-690



● Optional Internal HSDPA Specs (P/N: HSDPA01)

Band	WCDMA 850/1900/2100, GSM 850/900/1800/1900
Data Rate	HSDPA downlink 7.2Mbps, uplink 384Kbps
HSDPA/EDGE/GPRS feature set	<ul style="list-style-type: none"> • HSDPA/WCDMA/EDGE/GRPS/GSM worldwide roaming • WCDMA power class 3 • EDGE/GPRS class B, multi-slot class 10
Operating System Supported	Windows Vista, XP, Win 2000, Mac OS X, Linux
Interface	USB 2.0
Temperature	-20°C to +65°C
Humidity	up to 95% non-condensing
Dimensions	71 x 28 x 15mm

● Built-in Bluetooth Specs

Standard	Bluetooth V2.0
Frequency Band	2.402GHz ~ 2.480GHz unlicensed ISM band
Modulation Method	GFSK for 1Mbps; $\pi/4$ -DQPSK for 2Mbps; 8-DPSK for 3Mbps
Spread Spectrum	FHSS (Frequency Hopping Spread Spectrum)
RF Output Power	Class 2 (under 4 dBm)
Antenna terminal	50 Ohms
DC power	DC 3.3 V or DC 5V
I/O interface	USB v2.0 compliant interface
Two GPIO interface	LED link indicator interface
Dimensions	35 mm x 11 mm
Operating system supported	Windows XP, 2000, 98SE, Me

● Optional Mounting Kits

	AFL-15B-690	AFL-17B-690	AFL-19B-690
Panel mounting kit	AFLPK-15B	AFLPK-17B	AFLPK-19B
Wall mounting kit	AFLWK-19		
Rack mounting kit	AFLRK-15B	AFLRK-17B	-
ARM	ARM-11-RS/ARM-31-RS		
Stand	STAND-A19/STAND-B19/STAND-210-RS		

● OS Supported

	AFL-15B-690	AFL-17B-690	AFL-19B-690
OS: Win CE 5.0	AFLCF-15-690-CE	AFLCF-17-690-CE	AFLCF-19-690-CE
OS: Win CE 6.0	AFLCF-15-690-CE060	AFLCF-17-690-CE060	AFLCF-19-690-CE060
OS: Win XPE	AFLCF-15-690-XPE	AFLCF-17-690-XPE	AFLCF-19-690-XPE

● Ordering Information

AFL-15B-690E-AM2/WT-R/1GB/ **(HSDPA01)-R10	15" 350cd/m ² XGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, RoHS
AFL-17B-690E-AM2/WT-R/1GB/ **(HSDPA01)-R10	17" 300cd/m ² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, RoHS
AFL-19B-690E-AM2/WT-R/1GB/ **(HSDPA01)-R10	19" 300cd/m ² SXGA panel PC w/ AMD Athlon™ 64 X2 Dual-Core 4800+ 2.5GHz CPU, 1GB DDR2 RAM, 802.11 a/b/g/n wireless module, touch screen, Bluetooth, RoHS

Spectra Computersysteme GmbH

Humboldtstr.36
D-70771 Leinfelden-Echterdingen

Telefon +49 (0) 711 - 9 02 97 - 0
Telefax +49 (0) 711 - 9 02 97 - 90
E-Mail spectra@spectra.de

Niederlassung West:

Tel. +49 (0) 21 04 - 94 83 07
Fax +49 (0) 21 04 - 94 83 08



www.spectra.de

Spectra (Schweiz) AG

Gewerbestr. 12a
CH-8132 Egg/ZH

Telefon +41 (0) 43 - 277 10 50
Telefax +49 (0) 43 - 277 10 51
E-Mail info@spectra.ch



www.spectra.ch

Spectra Automatisierungstechnik GmbH

Gewerbepark Ost 1
A-4621 Sipbachzell (Wels)

Telefon +43 (0) 72 40 - 2 01 90
Telefax +43 (0) 72 40 - 2 01 90 60
E-Mail info@spectra-austria.at



www.spectra-austria.at