

AFL2-12A-HM65 12.1 " Flat-bezel Touch Panel PC



Solutions

Application



Medical treatment



Restaurant



Office



Library

Seamless Flat-Bezel Design

The flat-bezel design covers the entire front frame (bezel) to make the screen and bezel appear to blend together. The seamless flat-bezel touchscreen system offers a stylish and easy to clean surface.

Flat-Bezel Advantages

- Sleek and stylish appearance
- Perfect edge design prevents dust and water accumulation (IP 64)
- Easy-to-clean surface

Sleek & Stylish



IP 64



Advanced Flat-Bezel Design

Multimedia Device Ready

Build in 1.3 Megapixel CMOS webcam

- SXGA resolution image sensor
- Frame rate: 1280x1024@ 7.5fps max. 640x480@ 24~30fps
- Auto white balance
- Auto exposure
- Video resolution: 1280 x 1024, 800 x 600, 640 x 480, 352 x 288, 320 x 240, 176 x 144, 160 x 120.
- Auto compensation
- Focus Range: 25 cm to Infinity
- Flip Control Option
- High speed USB 2.0 interface
- Image Storage Format: AVI
- Photo Storage Format: BMP, JPEG



High resolution video camera



Built-in stereo speakers



Sensitive Microphone



Micro-USB/SD Card slot



LED-Backlight

LED-Backlight displays clearer and more vivid images even in outdoor environments with bright sunlight.

- Wider color gamut
- More even screen illumination
- Longer display life
- Low temperature operation and greater power efficiency



Traditional Product

AFL2-12A product

Two Touch Panel Options

Both the projected capacitive touch (PCAP) and 5-wire resistive touch screen provide powerful viewing options. See comparison below.

Touch Panel	Resistive Touch	Projected Capacitive Touch
Theory	There are two layers of insulation film, one has resistor, another can be considered a pure conductor, press to make them contact, to change resistance to position.	Make charge movement by a finger contacting. These charge comes from around wire of touch screen wire, IC analysis the current produced due to charge movement to position.
Transparency	above 78%	above 85%
Touch accuracy	above 98.5%	above 98.5%
Surface hardness	2H	7H
Indoor visual effect	Good	Good
Sunlight visual effect	Normal	Good
Touch Sensitivity	Can use fingers (even wear gloves), nails, stylus etc	only live fingers, non-living objects, nails, gloves are invalid.
Multitouch	No	Support in windows 7
Scratch resistance	Easily scratched, need protected film and frequently calibration.	the outer use glass, anti-scratch
Immunity	No	Electromagnetic interference
Dirty effect	No	Small, but easy to clean
Environmental Adaptability	no requirement for humidity, and can operate under wider temperature.	At least 5% operating humidity and temperature range is narrow.

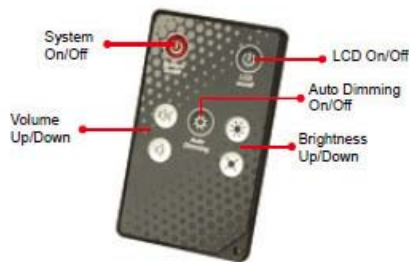
Auto Dimming

- More comfortable viewing, decreases eye strain and tiredness
- Power consumption saving
- Extend lamp lifetime



IR Remote Controller

- The IR remote controller is a convenient way to adjust visual settings.



Diverse Performance Options



• Reliable Fanless System-Intel® Atom™ Platform

High performance with low power consumption runs fast and stable for long-term usage.



• Graphic Performance System-Intel® Sandy Bridge Platform

Build-in H.264 / AVC-MPEG2 / VC1 full HD decoder and supports DirectX 10.1 and OpenGL 3.0

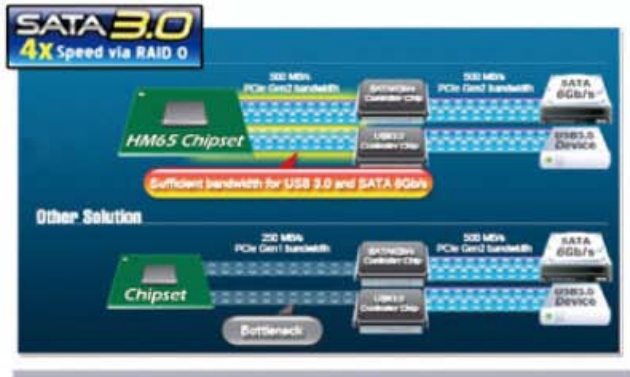
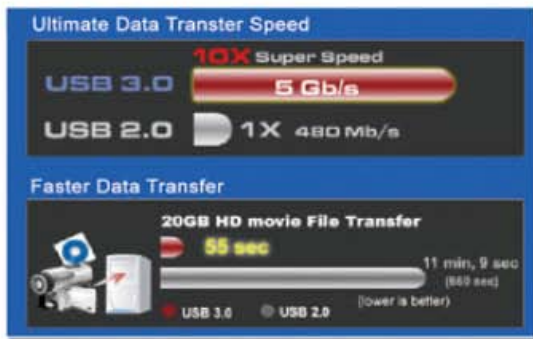


Performance	PCMark7 benchmark Test	3DMark 2006 v1.1.0	3DMark Vantage
Intel Core™ i7-2710QE quad core 2.1G processor and Intel® HM65	2107	3278	1562
Intel Core™ i5-2540M dual core 2.6G processor and Intel® HM65	990	2595	841
Intel Celeron B810 dual Core 1.6G processor and Intel® HM65	759	2041	415
Intel® Atom™ D525 1.8GHz 1MB/L2 Cache and Intel® ICH8M	665	180	N/A

N/A: 3DMark Vantage can't run at Intel® Atom D525 platform since it requests above DirectX10.

Super Speed-USB 3.0 & SATA 3.0

- Super speed USB 3.0 data transfer rates up to 10X faster than USB 2.0
- Extra SATA 3.0 doubles the current SATA transfer data rate to 6 Gb/s.



HDMI Port Delivers High Image Quality on a Second Display

- HDMI delivers high image quality on a second display with applications suitable for large screen digital signage.
- HDMI (High-Definition Multimedia Interface) is a compact audio/video interface for transmitting uncompressed digital data. It delivers high-definition video support at 1080p resolution which equals 1920 x 1080 pixels. It also supports industry standard EIA-861B video modes including 480p, 720p, 1080i, and 1080p.

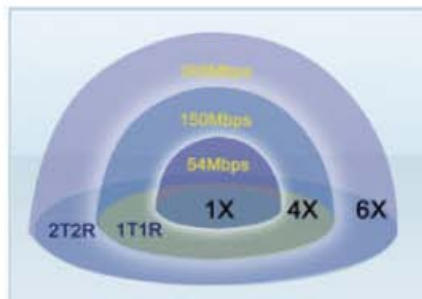


WiFi 2T2R Wireless LAN

ALF2-12A integrates a PIFA antenna and provides 802.11n 2T2R wide bandwidth wireless communication.

T: Transmitter: the number of T is absolutely relative with speed, 1T up to 150Mbps, 2T up to 300Mbps

R: Receive: the number of R is relative with receiving dead angle and distance. The higher R is, the wider the receiving range.



Function Keys

Function keys are shortcuts that perform commonly used functions. This is very convenient for panel PC users because no keyboard or mouse is required.



- Fn
- Backlight On/Off
- Audio -
- Audio +
- Brightness -
- Brightness +
- RFID enable / disable
- Audio mute
- Camera enable / disable
- Side USB enable / disable
- Power on / off

EM or Mifare Card Reader

• EM card:

Also called an ID card, card info is fixed and can't be re-written. Only a card reader can read the data, so security is low. EM cards can be used as staff badge cards.

• Mifare card:

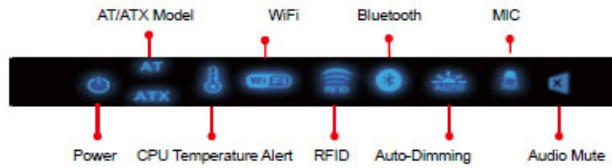
Also called an IC card, card info can be modified and password protected for higher security. IC cards can be used as bus passes.

Advantages:

- High Security: Each RFID tag contains an integrated chip with a Unique Permanent Identification (UID) number burned-in during the manufacturing process to make counterfeiting difficult.
- High Efficiency: Multiple tags can be read in parallel; no line of sight reading
- High Durability: Less subject to environmental damage

Indicators

Front panel has unique light indicators, to tell user which function is enabled.



Optional Magnetic Stripe Card / Smart Card Reader

(1) Hybrid Card Reader



(2) Magnetic Stripe Reader



iButton:

The iButton can be used to store cash for small transactions or as an electronic asset tag to store and track information such as valuable capital equipment.

Convenient cable location



Back mounting holes designed for the bracket kit



P/N	AFL2P-12AMSI-U	AFL2P-12AMSR-U
General	(1) Magnetic Card: ISO 7811, AAMVA, DMV, JIS II (2) Smart Card: ISO 7816, EMV (3) Dallas iButton	90 mm Magnetic Stripe Reader Programming: By Software Download Program Card Standard: ANSI, ISO, ABA Track Read: ISO 1,2,3 (IATA, ABA, THRIFT/ MINTS), JISII100-1000mm/sec
Electrical	Voltage: DC+5V, +/-5% Reading Indicator: Beeper	Voltage: DC+5V, +/-5% Reading Indicator: Beeper
Environment	Operating Temperature: 0°C to 40°C Relative Humidity: 10% to 90 % (Non-condensing)	Operating Temperature: 0°C to 50°C Relative Humidity: 20% to 85 % (Non-condensing)
Physical	Cable: Straight 2.5ft Weight: Approx. 60g	Cable: Straight 70cm Weight: Approx. 61g
Interface	USB	USB