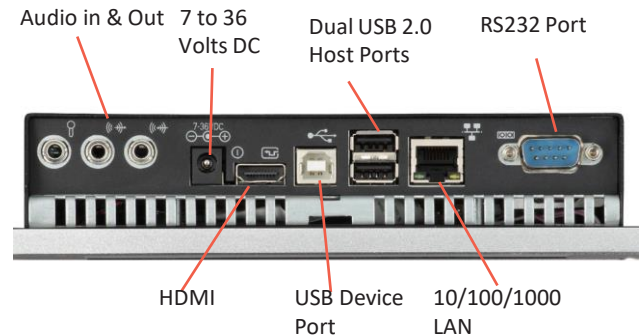


# ALPHA 1213

12.1" Cortex A9 LCD Computer Module  
PRODUCT INFORMATION



## ALPHA 1213 - For the Engineers



## ALPHA 1213 - The Headlines

- ▶ 12.1" TFT touch screen LCD with 1280 x 800 Resolution
- ▶ Projected Capacitive or Resisitive Touch Screens
- ▶ Attractive but rugged machined aluminium front panel
- ▶ Front panel overlay allows low cost branding options
- ▶ Fanless cooling so high reliability and silent operation
- ▶ Wide input power range from 7 to 36 volts DC simplifies installation and reduces cost
- ▶ Available with Linux, Android and Microsoft Windows Operating Systems\*
- ▶ Mounting options include Panel & VESA
- ▶ Designed, Manufactured and Technically supported in the UK
- ▶ Dual or Quad 1GHz Cortex A9 ARM RISC Processor
- ▶ 1GB/2GB memory, 1GB onboard Flash, MicroSD
- ▶ Supports two independant displays (7.1" plus external HDMI display) including HD multimedia
- ▶ 10/100/1000 Mbit LAN, Mini PCIe Socket for additional communications devices
- ▶ Dual external USB 2.0 & 1.1 Host Ports, Triple internal USB 2.0 & 1.1 Host Ports, single external USB Device Port
- ▶ Dual RS232 Serial Port one of which can be a RS422/RS485 Serial Port if required
- ▶ Optional two composite video capture inputs
- ▶ 12 General purpose IO signals, Audio Line In and Output

## ALPHA 1213 - In a few words

Designed and manufactured at Blue Chip Technology's facility in the heart of the UK the Alpha 1213 is a reliable compact solution to a wide range of touch screen applications. The high performance but low power Alpha 1213 delivers an impressive array of technology in a very compact unit. The machined aluminium front panel not only conveys quality but also is extremely rugged which allows a wide range of mounting options.

The Alpha 1213 can be supplied with either Linux, Android or Microsoft Windows\* operating systems and is the ideal platform to swiftly develop your new touch screen application.

If your installation requires a low cost, compact, touch screen platform with great support and reliability - the Alpha 1213 is the answer.



# ALPHA 1213

12.1" Cortex A9 LCD Computer Module  
PRODUCT INFORMATION



## Processors & Memory

### Processors

Device	Cortex A9 ARM RISC
CPU Cores	2 or 4
Speed	1GHz
Data Width	32 bit

### Memory

Technology	DDR3
Speed	
Channel Width	32bits
Capacities	1GB or 2GB

## Display

- ▶ Resolution 1280 x 800 pixels
- ▶ Technology a-Si TFT
- ▶ Touch Screen Resistive or Capacitive
- ▶ Active Area (W x H) 261.12 x 163.2mm
- ▶ Pixel Size (W x H) 0.204 x 0.204mm
- ▶ Colour Depth 24 bit
- ▶ Interface 24 bit LVDS
- ▶ Viewing Angle 88, 88, 88, 88 degrees
- ▶ Surface Hardness Resistive 3H  
Capactive 7H
- ▶ Contrast Ratio 1000 typical
- ▶ Brightness 340 cd/m<sup>2</sup> typical
- ▶ LED Backlight Life 50,000 hours minimum

## Communications

- ▶ 10/100/1000 Mbit LAN
- ▶ Two USB 2.0/1.1 external Host Ports, Three USB 2.0/1.1 internal Host Ports
- ▶ Single USB external Device Port
- ▶ Two RS232 ports, one RS422/485 port
- ▶ Optional Mini PCIe Socket can support Wifi, Bluetooth, GPS, GSM, 2G, 3G, 4G Modems, etc

## Storage

- ▶ Onboard 1GB NAND Flash
- ▶ MicroSD Socket - HC compatible (up to 32GB)

## Expansion and General Interfacing

- ▶ 12 General Purpose IO signals - internal
- ▶ Optional video capture  
Two composite video inputs

## Operating System Support \*

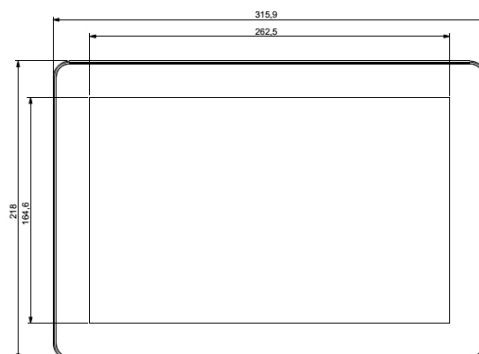
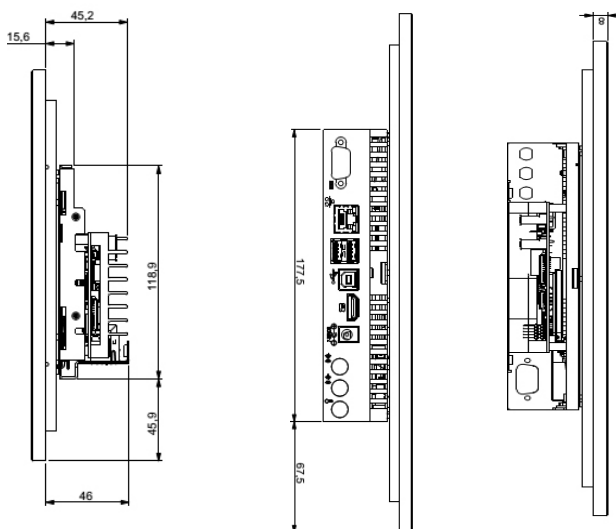
- ▶ Linux
- ▶ Android
- ▶ Microsoft Windows EC 2013

## Environmental/Mechanical

- ▶ Operating Temp 0°C to 50°C
- ▶ Humidity 10% to 85% non-condensing
- ▶ EMC Emissions EN55022 (A)  
Immunity EN55024
- ▶ Safety EN60950
- ▶ Protection IP54 Front Panel

## Power

- ▶ Input Voltage 7 to 36 Volts DC
- ▶ Power Consumption Up to 11 Watts



\* Please contact your supplier for the latest details

Email: sales@bluechiptechnology.co.uk  
Website: www.bluechiptechnology.co.uk

Tel: 44 (0) 1829 772000  
Blue Chip Technology, Chowley Oak, Tattenhall, Chester. Cheshire CH3 9EX

Fax: 44 (0) 1829 772001