ALPHA 712

7.1" Cortex A8 LCD Computer Module
PRODUCT INFORMATION

ALPHA 712 - For the Engineers

7.1" TFT Touch LCD
800 x 480 resolution

Optional GPS

Optional GSM

RS232 or RS422/485 Port

Optional Video Capture Inputs

Optional WiFi

Overlay allows easy customisation

Aluminium Front Panel

Audio in & Out

7 to 36 Volts DC

HDMI

USB Device Port

Dual USB 1.1 Host Ports

10/100 LAN

RS232 Port
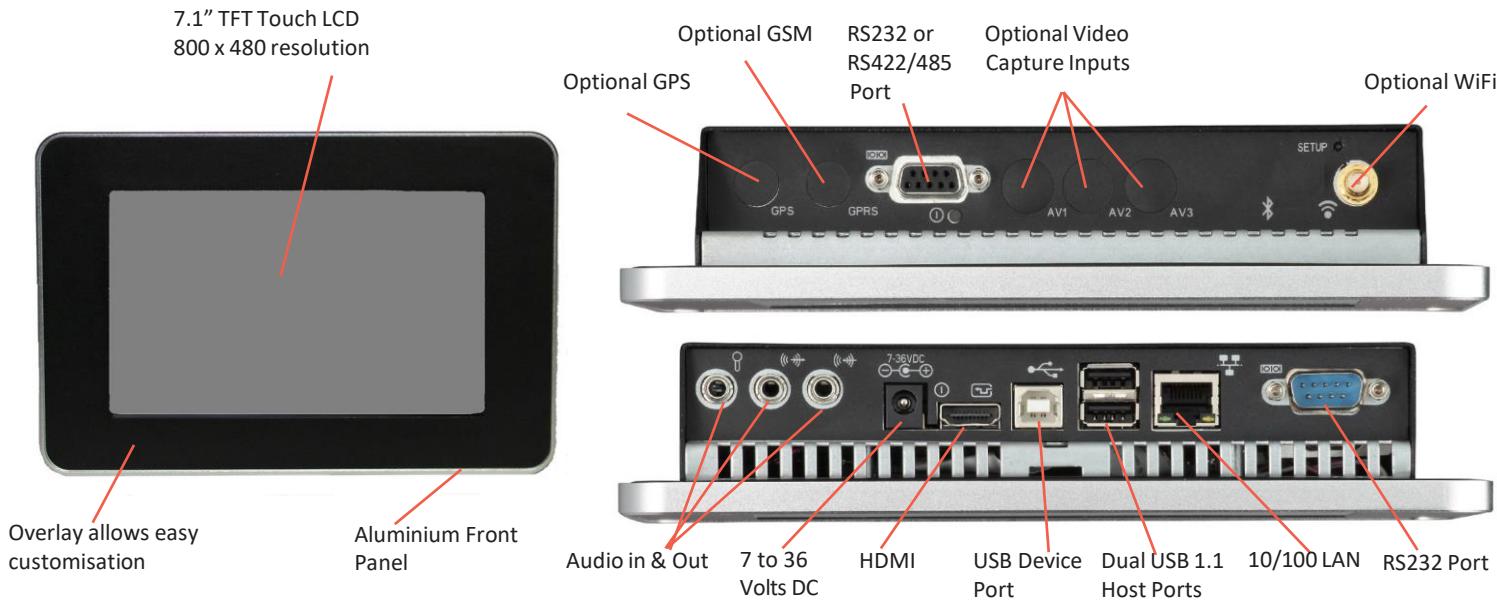
ALPHA 712 - The Headlines

- ► 7.1" TFT touch screen LCD with 800 x 480 Resolution
- ► Low power consumption
- ► Attractive but rugged machined aluminium front panel
- ► Front panel overlay allows custmisation at low cost
- ► Fanless cooling so high reliability and quiet operation
- ► Wide input power range from 7 to 36 volts DC simplifies installation and reduces cost
- ► Available with Microsoft Windows CE 6.0 R3 or Ubuntu Linux Operating Systems
- ► Customisable splash screen allows easy branding (CE)
- ► Powerful onboard configuration tools (CE)
- ► Mounting options include Dry Wall, Panel & VESA

- ► 1GHz Cortex A8 ARM RISC Processor
- ► 256MB SDRAM memory, 512MB Flash, MicroSD Socket
- ► 10/100 Mbit LAN
- ► Dual external USB 2.0 & 1.1 Host Ports, Dual 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 three composite video capture inputs
- ► 12 General purpose IO signals, Audio Line In and Out
- ► Real Time Clock with separate battery
- ► Designed, Manufactured and Technically supported in the UK

ALPHA 712 - In a few words

Designed and manufactured at Blue Chip Technology's facility in the heart of the UK the Alpha 712 is a reliable compact solution to a wide range of touch screen applications. Consuming approximately than 5 watts the Alpha 712 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 712 can be supplied with either Microsoft Windows CE or Linux 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 712 is the answer.

ALPHA 712
## 7.1" Cortex A8 LCD Computer Module
PRODUCT INFORMATION

Processors & Memory

► Processors

	Device	Cortex A8 ARM RISC
	CPU Cores	1
	Speed	1GHz
	Data Width	32 bit

► Memory

	Technology	LPDDR
	Channel Width	32bits
	Capacities	256MB

Display

►	Resolutions	800 x 480 pixels
►	Technology	a-Si TFT
►	Touch Screen	4 wire Resistive
►	Active Area (W x H)	152.4 x 91.44mm
►	Pixel Size (W x H)	0.1905 x 0.1905 mm
►	Colour Depth	18 bit
►	Interface	18 bit RGB
►	Viewing Direction	6 o'clock
►	Surface Hardness	3H
►	Input Mode	Stylus or Finger
►	Operating Force	80g
►	Contrast Ratio	1000 typical
►	Brightness	400 cd/m^2
►	HDMI	Disables LCD display
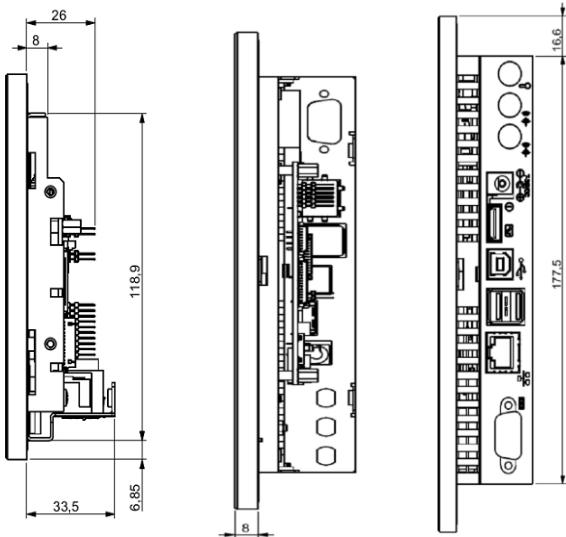
Communications

► 10/100 Mbit LAN

► Two USB 2.0/1.1 external Host Ports, Two USB 2.0/1.1 internal Host Ports

► Single USB external Device Host Port

► Two RS232 ports, one RS422/485 port

► Wi-Fi 802.11 b/g and Bluetooth

► Optional CM-1 provides GPS, GSM, 2G Modem and accelerometer.

Storage

► Onboard 512MB NAND Flash

► MicroSD Socket - HC compatible (up to 32GB)

Expansion and General Interfacing

► 12 General Purpose IO signals - internal

► Optional video capture (Windows CE only)

    Three composite video inputs or

   one input component video capture module

Operating System Support *

► Microsoft Windows CE 6.0 R3 & EC7

► Linux Ubuntu 12.04 LTS

► Android *

Environmental/Mechanical

► Operating Temperatures

	Standard	0ºC to 50ºC
	Extended	-20ºC to 70ºC
	Humidity	10% to 85% non-condensing

► EMC   EN55022 (A),EN55024

► Safety   EN60950

Power

► Input Voltage   7 to 36 Volts DC

► Power Consumption   Approximately 5 Watts
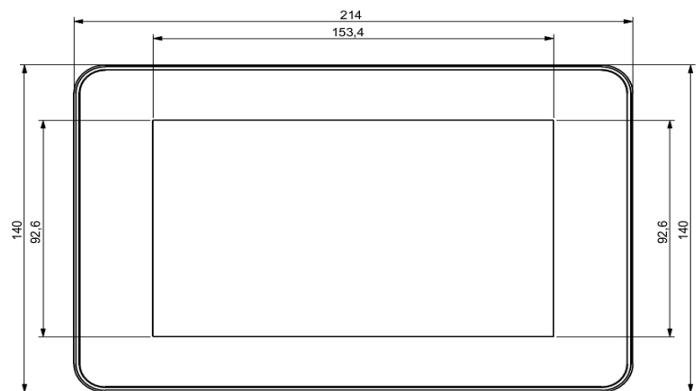
Please contact Blue Chip Technology Sales for the latest information