ALPHA 713
7.1" Cortex A9 LCD Computer Module
PRODUCT INFORMATION

BlueChip Technology

ALPHA 713 - 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 Bluetooth

Optional WiFi

Overlay allows easy customisation

Thin 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
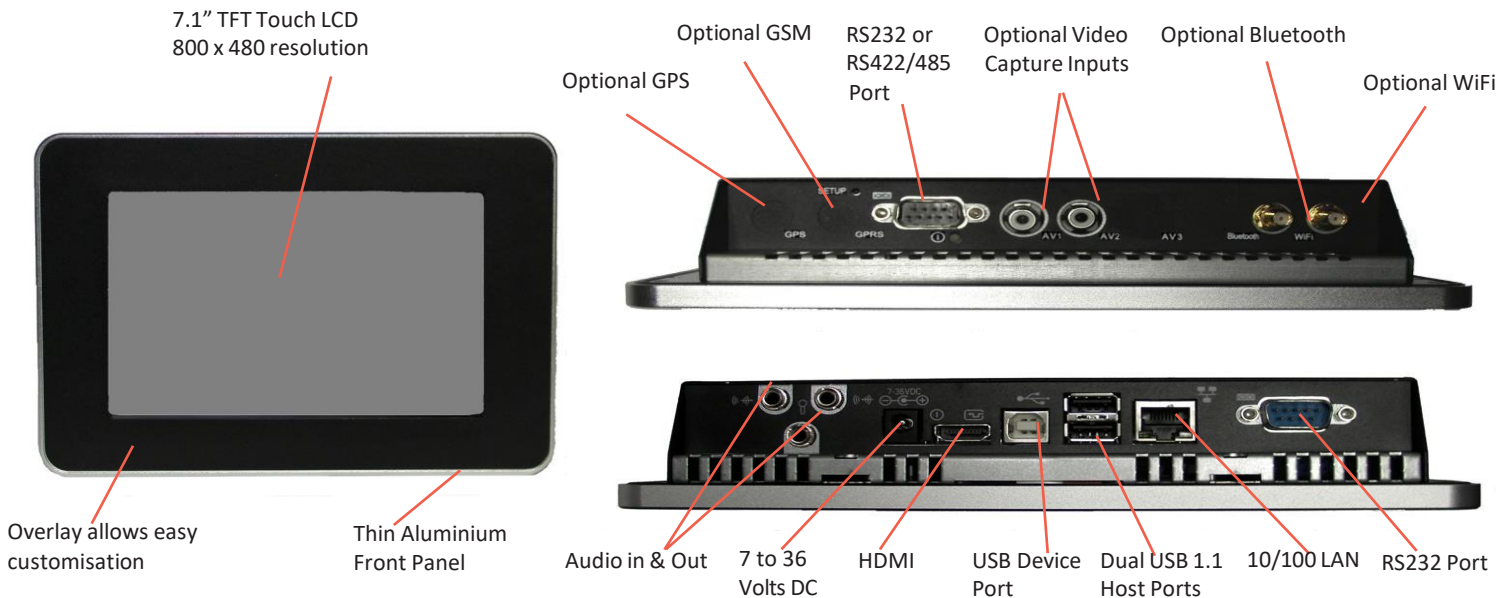
ALPHA 713 - The Headlines

- ► 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 Linux, Android and Microsoft Windows Operating Systems*
- ► Mounting options include Dry Wall, Panel & VESA
- ► Designed, Manufactured and Technically supported in the UK

- ► Dual or Quad 1GHz Cortex A9 ARM RISC Processor
- ► 1GB SDRAM 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 713 - In a few words

Designed and manufactured at Blue Chip Technology's facility in the heart of the UK the Alpha 713 is a reliable compact solution to a wide range of touch screen applications. The high performance but low power Alpha 713 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 713 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 713 is the answer.

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

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
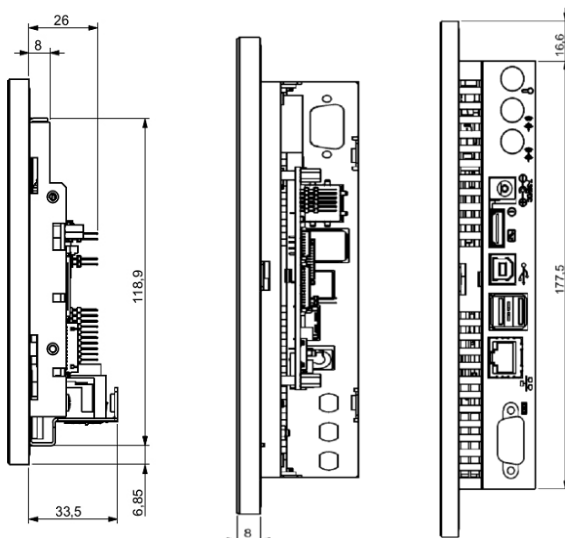
Communications

► 10/100/1000 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 *

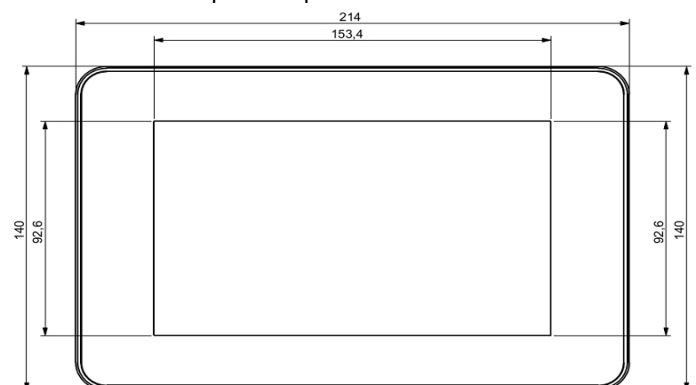► Linux

► Android

► Microsoft Windows EC 2013

Environmental/Mechanical

► Operating Temperatures

	Standard 0°C to 50°C	
	Extended -20°C to 60°	
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 7 Watts

* Please contact your supplier for the latest details

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