

## THE 17" SXGA RUGGED PC

This Brimar 28V rugged PC offers a unique mix of Brimar's high performance low-latency video processing and PC compatibility. Use of Intel's Atom™ processor means reduced power consumption and heat output whilst supporting the ability to run a wide range of applications on Windows, Linux or other embedded platforms.

## APPLICATIONS CAN INCLUDE:

- Combination of multiple existing C4I functions
- Commander's Panel
- Local Situational Awareness (LSAS)
- Health and Usage Monitoring (HUMS)
- Navigation & maps displays

## TECHNOLOGY

Direct connection for up to 4 PAL or NTSC video inputs, which can be displayed directly on the screen with minimal latency. The PC display can be either shown full screen, within a separate picture-in-picture window, or overlaid on the video signals using a chroma-key technique. Rapid startup allows live video to be displayed within 1-2 seconds after power-on, even before the PC has completed system boot.

# TECHNICAL SPECIFICATION

## OPTICAL CHARACTERISTICS

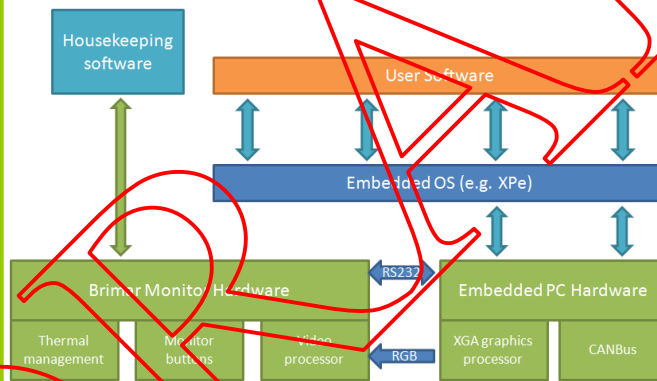
Viewing Area: 17.0" Diagonal  
 Resolution: 1280 x 1024 SXGA  
 Viewing Angles: Horizontal  $\pm 70^\circ$   
 Vertical  $\pm 70^\circ$  Up  
 Brightness/Luminance: 200cd/m<sup>2</sup>

## ENVIRONMENT

Operating Temperature: -20°C to +65°C  
 Storage Temperature: -51°C to +85°C

Designed for Low Pressure, Air Transportation, sealed Driving Rain and Dust/Sand, Chemical & Biological Protection, Fungal Growth, Corrosion Salt, Fluid Contamination, Humidity, Shock, Vibration, Electromagnetic Radiation, EMC, Nuclear, Boot Kick and Drop Test.

## SOFTWARE ARCHITECTURE



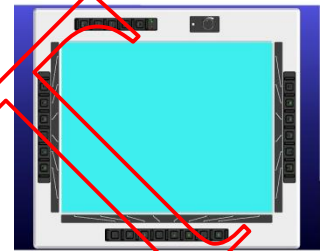
## PHYSICAL CHARACTERISTICS

Height: 387 mm  
 Width: 431 mm  
 Depth: 85 mm

## ELECTRONIC SPECIFICATIONS

Processor: 1.1GHz Intel Atom™  
 Bus: 400/533 Front Side Bus  
 Memory: 512Mb DDR2 SDRAM  
 1Gb NAND FLASH  
 Software: Windows BSP & drivers  
 Linux BSP & drivers  
 Other RTOS support available  
 Interfaces: 10/100/1000 Ethernet, USB 2.0,  
 RS-232, RS-422, CANbus  
 Video: 4 composite or 2 YC (PAL/NTSC)  
 Input Power: 60W at steady state and 10W at  
 Standby. Max 200W with heaters.  
 Input Power: 28V raw vehicle supply.  
 MTBF: 15,000 hrs  
 Buttons: 20 backlit membrane keys.

**FOR MORE  
 INFORMATION  
 ON THE BRIMAR  
 17" RUGGED PC**



## CONTACT US

**BRIMAR LIMITED**  
 Greenside Way  
 Middleton  
 Manchester  
 M24 1SN

Tel: +44 (0)161 681 7072  
 Fax: +44 (0)161 682 3818  
 Email: [enquiries@brimar-ltd.com](mailto:enquiries@brimar-ltd.com)  
 Web: [www.brimar-ltd.com](http://www.brimar-ltd.com)

**BRIMAR INC**  
 2965 Colonnade Drive  
 Suite #201  
 Roanoke  
 VA 24018

Tel: +1 (540) 725 1688  
 Fax: +1 (540) 725 1690  
 Email: [sales@brimarinc.net](mailto:sales@brimarinc.net)  
 Web: [www.brimar-ltd.com](http://www.brimar-ltd.com)