

### THE 12.1" SVGA 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.

The unit can also include a rugged touch screen interface.

### 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

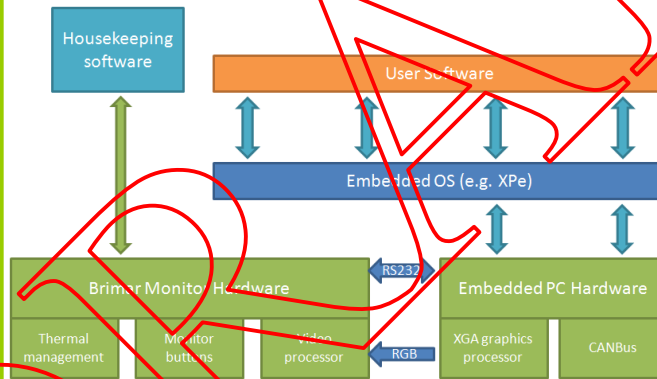
Viewing Area: 12.1" Diagonal  
 Resolution: 800 x 600 SVGA  
 Viewing Angles: Horizontal  $\pm 80^\circ$   
 Vertical  $\pm 60^\circ$  Up  
 Brightness/Luminance: 250cd/m<sup>2</sup>

## ENVIRONMENT

Operating Temperature: -40°C to +71°C  
 Storage Temperature: -46°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



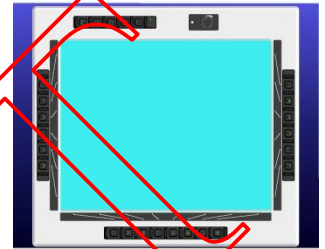
## PHYSICAL CHARACTERISTICS

Height: 273mm  
 Width: 330 mm  
 Depth: 100 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



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