

VT084XA

Solutions for Demanding Applications



VARTECH SYSTEMS INC.

All-Weather All-Terrain Fully Sealed IP67 (NEMA 6) Submersible Extreme Operational Temperature Sunlight Readable LCD



VarTech's 8.4" **All-Weather, All-Terrain, Harsh-Duty** LCD Display System is waterproof (fully submersible) and engineered to withstand the harshest environments and most demanding real world applications.

This high resolution SVGA 800 x 600 native (optional XGA 1024 x 768), is equipped with VarTech's proprietary **Enhanced Light Transmission Technology (ELTT)** which allows for **true Sunlight Readability** and as well provides exceptional clarity and viewing angles. This advanced user friendly LCD display system provides extensive operational temperatures of -20° to +70°C (standard) or -40°C to 70°C (optional) and unprecedented video input capabilities from traditional VGA to up to **FOUR individual direct composite BNC video feeds with easy one-touch toggle select function between all feeds!**

SPECIFICATIONS

FEATURES

- ◆ Fully Sealed IP67 (NEMA 6) Submersible Machined Aluminum Enclosure
- ◆ Harsh Duty LCD Panel w/ Optically Bonded Overlay
- ◆ True High Brightness Low-Power, high reliability **Solid State LED Backlighting**
- ◆ VarTech's advanced VTLED driver technology
- ◆ Ultra-Wide Viewing Angles ' Very High Contrast
- ◆ Extreme Wide Operational Temperatures
- ◆ One-Touch Toggle Between Multiple Video Feeds

Marks of Conformity:

FCC47 CFR part 15, subpart B
EMC: EN 55022:2006, EN 55024:1998, CISPR 22:2005, CISPR 24:1997
Canada: ICES-003
Australia/New Zealand: AS/NZS CISPR 22
CE
RoHS
WEEE



Construction

IP67 (NEMA 6) Fully-Enclosed Submersible Machined 6061 T6 Aluminum Enclosure

Display Size – Viewable Area

8.4 inches

Panel Type

Harsh Duty LCD cell w/ Optically Bonded Protective Overlay (VBOND)

Resolution

Standard: SVGA 800 x 600 Native
Optional: XGA 1024 x 768 native

Brightness

True High Brightness:
Standard SVGA Type: 1500 nits (cd/m²)
Optional XGA Type: 1100 nits (cd/m²)
Low-Power, high reliability **Solid State LED Backlighting**

Pixel Pitch

0.213 x 0.213 (Optional 0.1665 x 0.1665 w/ XGA)

Response Time

25ms (25ms with XGA panel)

Backlight MTBF

65,000 hours

Dimming Ratio

5000:1 minimum

Backlight Driver

VarTech's advanced VTLED driver technology, the latest in technology for driving solid state High Bright Light Emitting Diodes (HBLEDs)

Viewing Envelope

Standard SVGA: Up/Dwn/L/R: 80°/60°/80°/80°
Optional XGA: Up/Dwn/L/R: 88°/88°/88°/88°

Contrast Ratio

Standard SVGA Type: 600:1
Optional XGA Type: 400:1

Video Input

- IP67 Sealed VGA Connector for Computer interface

OPTIONAL

- IP67 Sealed Single VGA Connector, Single Composite BNC Feed for NTSC/PAL, Optional Touch Interface
- IP67 Sealed Single VGA Connector, Dual Composite BNC Feed for NTSC/PAL, Optional Touch Interface
- IP67 Sealed Single Composite BNC Feed for NTSC/PAL
- IP67 Sealed Dual Separate Composite BNC Feed for NTSC/PAL
- IP67 Sealed Three Separate Composite BNC Feed for NTSC/PAL
- IP67 Sealed Four Separate Composite BNC Feed for NTSC/PAL
- Also available with MIL-DTL-38999 connectors

COMING SOON, CALL

- IP67 Sealed Dual VGA Connectors with/without Optional Touch Interface
- IP67 Sealed Dual VGA Connectors, Single Composite BNC Feed for NTSC/PAL, Optional Touch Interface
- IP67 Sealed Dual VGA Connectors, Dual Composite BNC Feed for NTSC/PAL, Optional Touch Interface

Electrical Input

Harsh Duty Variable Power Supply, 9 to 36 VDC, Wide Range, Low Noise, Wide Operational Temperature (Optional AC Power, Universal Input 85 to 264 VAC)

Max Power Requirements

SVGA Panel - 25 watts, 32 watts w/heater
XGA Panel - 38 watts, 45 watts w/heater

Video Controller

VarTech's Harsh Environment Controller Board

Wide Operational Temperatures

Standard: -20° to +70°C (-4°F to 158°F)
Optional: -40° to +70°C (-40°F to 158°F)

Storage Temperature

-40° to +75°C (-40°F to 167°F)

Dimensions

Width - 10.3", Height - 7.05", Depth - 2.78"

Weight

5 lb.

Humidity

Operating: 0 to 100%

Altitude

10,000 ft. (optional 45,000 ft.)

Shock

Designed to Meet MIL-S-901D

Vibration

Designed to Meet MIL-STD-167

Environment

Designed to Meet MIL-STD-810F

Marine

Designed to Meet IEC 60529

EMI / EMC

Designed to Meet FCC Class B (optional 461F)
Designed to Meet IEC 60945

Cables

Length - 3m (9'10") each
Available IP67 Connector (monitor end) Cables:
Power
Video - 15-pin D-Sub
Touch (optional) - Serial or USB
Direct Composite BNC Video Feed (optional)

Touch Screen (optional)

5-Wire, Durable, Resistive

Mounting

RAM Mounting - standard
Flush Mounting - optional
Panel Mounting - optional
Gimbal Mounting - optional
Handles (top or left & right) - optional
Pedestal Mounting - optional
VESA Mounting - optional

Electrical Protection

Internal Short Circuit Protection, Load Dump Protection, Over Voltage Protection, Reverse Polarity Protection

Night-Vision Compliance (optional)

NVIS MIL-STD-3009 Class B Gen 3 (MIL-L-85762A)

Optional Connectors

Optional "Right Angle" Connectors

Overlay (optional and available only with non-touch)

Chemically Strengthened Bonded Overlay

Warranty

2 years

CONTACT

HEADQUARTERS

11529 Sun Belt Ct.
Baton Rouge, Louisiana 70809

Phone 800.223.8050

International

001.225.298.0300

Fax 225.297.2440

E-mail

sales@vartechsystems.com

Website

www.vartechsystems.com

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