

OVERVIEW

Suntronic's GS product line, featuring innovative All-Weather Sunlight Readable LCD technology, provides the highest-quality Sunlight Readable image available in Out Door Environment. These Industrial grade Outdoor displays have the exemplary resolution and brightness you've come to expect from Suntronic. GS technology delivers stunning images for use in applications such as: Digital Signage, Ski Resorts, Retail/ Restaurants, Golf Course, Gas Stations, Shopping Malls, Restaurants and Outdoor

WHY SUNTRONIC'S GS OUTDOOR LCD?

- All in one outdoor High Brightness All Weather outdoor LCD Complete solution protect sunlight readable LCD in IP65/NEMA enclosures
- Outdoor use under direct Sunlight Unique built in air conditioner design to keep unit working even in extreme conditions
- Touchscreen and Computer: Optional integration of Touch screen and PC capability
- ❖ Warranty: Backed by our WARRANTY and excellent customer service.

FEATURES AND BENIFITS

High Brightness & High Contrast LCD: Offers superior readability under sunlight. High Brightness and contrast ratio assure excellent visibility even in bright outdoor environments.

Auto Power on and Video signal on/off: The LCD is always on whenever there is a power, this functionality eliminates the need to manual turn on the LCD. Also, you can control the LCD backlight on/off by video signal. LCD backlight will shut down when no video signal, but LCD backlight will wake up when the video signal is back on.

Safety AR/ Solar Blocking Glass:

Vandal Resistant AR Glass decreased reflection makes image crystal clear, and they produce less glare. Also Block direct solar heat provide protection from UV rays.

IP65/NEMA4X Vandal Resistant

Enclosures: will stand up to harsh, wet and dirty environments, Falling dirt, rain, sleet, snow, windblown dust, external ice formation, splashing water, hose-directed water

Flexible Mounting Options – Provide mounting M12 holes at the top, bottom and sides for different mounting application either wall mount, pole mount, ceiling mount where you will find GS will be user friendly to work with for

Air Curtain – a flow of air is constantly carried across the front between the glass and LCD. An air curtain prevents any damage to the screen caused by heat buildup in high temperatures or by continual direct sunlight. In colder



Air conditioning & Heater – For use in extreme temperatures, GS built in air conditioning inside the completely sealed NEMA4/IP65 Enclosures providing a perfectly sealed environment that is the optimum condition for the Operating

Front Removable Glass: Makes easier to remove and replace glass when it is damaged or scratched.

Slick & Slim Bezel: Ultra-thin bezel LCD Media Video wall system that delivers outstanding visual performance for Video Wall Tiling.

Powder Coated Finish – Epoxy polyester paint is electrostatically applied across the entire unit then oven baked to provide a smooth textured finish that is ideal for wet and corrosive environments – adheres to IP65 & NEMA 4

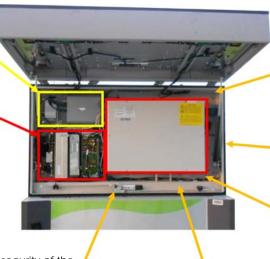
Touch screen Kiosk – Optional Stand turn GS to modern aesthetic quality interactive and information Kiosk promote interaction and functionality, it come with vertical (portrait) or Horizontal (Landscape) orientation.

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FEATURES AND BENIFITS

Extra Interior Space– To provide easier access and spacious for integrating single board PCs, digital media players, Cellular modem, CAT extender, Fiber optical extender.

Modular Design – Easy to remove and replace on major Modular Design electronic component and Air conditioner for saving time on troubling shooting and lower cost for field Service.



KeyLock: Ensure the security of the enclosures for unwanted access

Built-in Waterproof Speakers –2 set of 5 Watts waterproof speakers enable sound to be integrated into the GS give you further levels of customer interactivity.

Automatic Thermostatic Cut Off -

Automatic thermostat cut-off that will turn off the screen in excessively high temperatures to prevent screen damage - Ideal for areas where such extreme temperatures

Closed Cell gasket -Creates a waterproof and dustproof seal when the enclosure is closed preventing any ingress of water or moisture, as well as pass a hose-down test. - adheres to IP65 and

25 mm insulation – a 25 mm layer of closed-cell foam that contains a low-conductivity gas which is added to Suntronic enclosures that are bound for colder conditions. This reduces heat-loss and prevents ice crystals from forming inside the enclosure allowing the screen to be used in temperatures as low as -40F

SPECIFICATIONS

Active area size (W x H): 46" (1018.353 x 572.544 mm)

Pixel Pitch: 0.2485(H) x 0.7455(V) Panel resolution (pixels): 1920 x 1080

Luminance of white (Brightness): 1500 nits (Typ)

Contrast ratio: 3000:1

Response time (gtg): 8 ms (Typ)
Colour Range: 16.7 Million colours (max)

Viewing angle: 89/89/899 Video inputs: VGA; HDMI; S-Video Auto Brightness Control: Yes (Optional) Front glass type: Strengthen 6mm AR glass

IP Class: IP65

Operating temperature range: -40 to + 95F (Direct Sunlight) /122F

(Under Shaded Area)

Storage Temperature: 0 to 50C **CCFL Life Time**: 60K hrs (min)

Input voltage: 110V Weight: 70kg/195lbs

External dimensions (W x H x D): 1056 x 610 x 249 mm Notes: to guarantee a proper functionality, 10cm of clearance must be kept

around the display (41.6" W x 24" H x 9.81"D)

Landscape version: Please contact SuntornicLCD for details **Available Accessories**: IR Remote Control and VGA cable

(included) and Ethernet Cable (not included)

Options: Custom Embedded PCs (please call for enquiries)

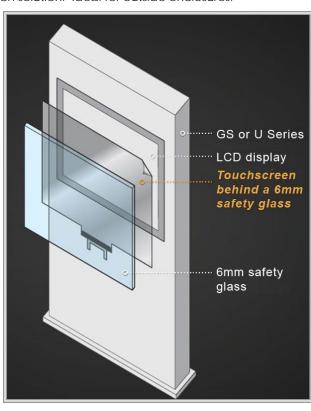
Customization: Please contact SuntornicLCD for available options

Warranty: One Year return to Depot Warranty **Remarks: L for Landscape and P for portrait

GS and U Series Touch screen Options

Laminate the touch foil behind a safety glass the glass and integrate into our GS or U Series.

Fitting behind the glass to create a vandal and weather proof touch solution. Ideal for outside enclosures.















PICTURES

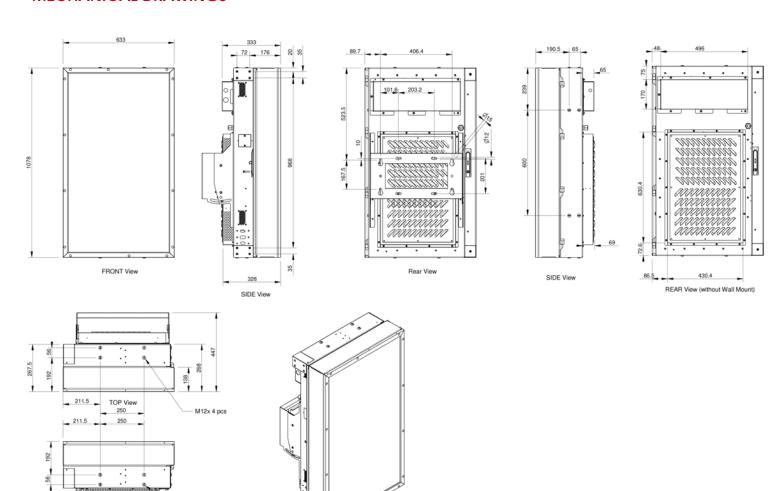








MECHANICAL DRAWINGS







BOTTOM View









M12 x 4pcs

LPC7050WT (Optional)



Cable-free interior

The interior of this product contains no wires, making this industrial product as rugged as possible.

Multiple display ports

This platform comes with multiple video-out ports to allow easy integration with any signage setup.

Integrated SIM card reader

Integrated in a mini-PCle slot, the SIM card readers allow for users to enable 3G use for their IPC.

Intel® Atom™ N2800

Dual core Cedar Trail Intel Atom CPUs feature the 1.8 GHz N2800 which uses $6.5~\mathrm{Watts}$.

Fanless

This IPCs lifespan has been extended by removing the most easily damaged component, the fan.

Extreme operating temperature

This product is ruggedized to support a wider than usual range of temperatures. Outfitted with industrial components (HDD/SSD, CF, Memory) this appliance can thrive in harsh conditions.

Dust proof design

Solid chassis design with a fanless interior allows for this product to be completely dustproof when installed correctly, insuring longevity of the product.

Screw-locked power plug

This power plug is made to screw directly into the appliance chassis, allowing secure power connection in even the harshest of settings.

LED indicators

LED indicators makes it easy to check working status.

LPC7050WT SPECS:

Dimensions (WxHxD) Processor		198x42x145mm (7.80" x1.65" x5.71")	
		Intel Atom N2800	
Chipset		Intel NM10	
System Memory	Technology	DDR3 SODIMM x1	
	Max. Capacity	Up to 4GB	
Storage	IDE	CF socket Type I/II x1	
	SATA	2.5" SSD/HDD drive bay x1	
Ethernet Controller		Intel 82574 x1: Intel 82583V x1	
Graphic Controller		Intel Integrated Graphics Media Accelerator 3650	
Audio Controller		RTL ALC886 x1	
	LAN	GbE RJ45 x2	
	Display	DB15 x1 for VGA (1920x1200) DVI-D x1 (1920x1200)	
	Video Grabber	N/A	
1/0	Audio	Phone Jack x2 for Mic-in and Line-Out	
., -	Serial I/O	DB9 x2 supports RS232/422/485	
	GPS	N/A	
	USB 2.0	Type A x4	
	Power Input	2-pin terminal block	
	Expansion	Mini-PCle x2 (one with SIM card reader)	
	Others	External: Power-On Button, SMA Antenna Hole Internal: Reset	
Power Input		+24Vdc +/-5%, ATX Mode	
AC Adapter		60W +24V @ 2.5A	
Hardware Monitor		Fintek F81865F Integrated Watchdog Timer 1~255 level	
OS Support		Linux. XPE. XP Pro FES. WS7E, WS7P, Win 7 Pro FES	
Certifications		CE. FCC Class A	
Compliance		N/A	
Operating	w/ Industrial Components	-20~55°C/-4~131°F	
Temp. Range	w/ Commercial Components	-5~45°C / 23~113°F	













OUTDOOR ANTENNA (TRAB24003P)

WHITE OR BLACK: Our UHF and 800/900 MHz Phantoms are now available in either white or black ABS plastic. ABS plastic is highly shock resistant. Both can be painted to the color of your application by using a nonmetallic paint.

WHIPLESS DESIGN: The revolutionary patent pending whipless design of our Phantom™ antenna allows car washes without removing the antenna. Whipless means they don't look like antennas, attract less attention, less vandalism, and have lower wind resistance. Phantom. s™ are also less susceptible to be broken by trees and garages.

FIELD DIVERSITY: Field diversity means that the antenna is simultaneously sensitive to both the electric and magnetic fields of the signal, like having two antennas. Field diversity makes the antenna resistant to the picket-fence fading that is always found in urban operation.

MEAN-EFFECTIVE-GAIN: The radiation pattern of our Phantom™ antennas are specially tailored to aim the signals in the right direction for mobile operation by utilizing a low radiation angle and a broad beamwidth. When used in mobile operation, in urban or suburban areas, our phantom antennas have been proven to outperform any gain antenna.

PERMANENT MOUNTING: Permanent mount versions of the UHF and higher frequency models are available for those high risk applications such as metering where antennas must resist vandalism and achieve economical mounting.

TRAB24003P

800/900 MHz 3 dB-MEG BLACK MODELS

Frequency Range = 2400-2500 MHz Radome height = 2.30"

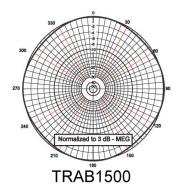
Gain = 3 dB-MEG*

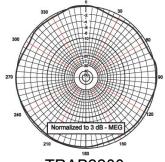




	VHF	220 MHz
Gain:	Unity	Unity
Frequency Range:	144-150 MHz 150-156 MHz 156-162 MHz	220-230 MHz
VSWR:	<1.5:1 850 kHz <2.0:1 1.5 MHz	<1.5:1 2.2 MHz <2.0:1 4.0 MHz
Maximum Power:	100 watts	100 watts
Bandwidth:	1.5 MHz	4 MHz
Impedance:	50 ohms	50 ohms
Height:	3½"	2½"

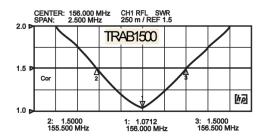
Horizontal Field Patterns

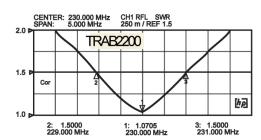




TRAB2200

VSWR















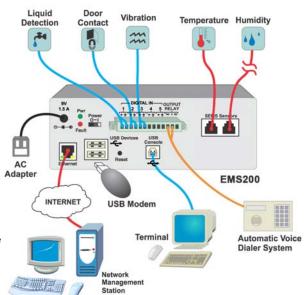


EMS200 (Optional)



Mini Server Environment Monitoring System monitors critical environmental conditions (such as temperature, humidity, and water leakage) that could destroy network components in your server room. When a sensor goes out of range of a configurable threshold, the system will notify you via email, SNMP traps, web-page alerts, a visual indicator (red LED), voice phone calls (via Automatic Voice Dialer System), and SMS messages (via USB 3G modem).The system supports two temperature/humidity sensors, five digital input sensors, and one output relay

Configuration and Cable Illustration



SPECIFICATIONS:

SECTIONS.			
Sensor Ports	2 RJ45 jacks		
Digital Inputs	5 screw terminal pairs		
Output Relay	1 screw terminal pair; normally open / normally closed connection points		
USB Console Port	One female USB Type B connector for terminal access		
Ethernet Port	One 10/100 Base-T Ethernet port with RJ45 jack		
USB Ports	2 female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive		
Alerts	6 methods		
Email	Authenticates		
Web Page	Y		
SNMP network management	Y		
Front Panel LEDs	LEDs for sensors and power		
Voice Phone Calls	Via Automatic Voice Dialer System (not included)		
SMS Messages	Via external USB 3G modem (not included)		
Smart Alerts	Up to 50 sensor conditions (events) can be configured to trigger alertsby themselves		
	Up to 20 Smart Alerts can be configured to use different event combinations tosend alert messages		
Control Methods	4 methods		
Web Interface	HTTP/HTTPS Supports up to 16 user accounts		
Telnet	Y Two user levels: user and administrator		
Network Operation (SNMP)	V1/V2c/V3		
USB Serial Interface	Y Two user levels: user and administrator		
Monitor (Ping) IP Devices	Up to 16 devices		
Protocols	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0		
Flash Upgradeable	y		
Operating Temperature	EMS200: 32°F to 104°F (0°C to 40°C). EMS200-IND: 32°F to 167°F (0°C to 75°C).		
Storage Temperature	-20°F to 176°F (-20°C to 80°C).		
Operating & Storage Relative	17 to 90% non-condensing RH		
Power	110 or 220 VAC at 50 or 60 Hz via AC adapter Optional backup battery - provides backup power for two hours		
Dimensions WxDxH (in)	5.67x2.10x2.10		
Mounting	Zero-RU Optional DIN rail mounting		
Regulatory Approvals	CE, RoHS		
Warranty	2 years		
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