



LAND



SEA



AIR



SKY 12-P20

**RUGGED SMART DISPLAY WITH
20 PROGRAMMABLE FUNCTION KEYS**



POWER AUTOMATION COMPUTER

- 12" Glass-Film-Glass Touch panel
- 20 user Programmable function keys
- Heavy-duty fully IP65 Rugged aluminum chassis with MIL-DTL-38999 connectors
- 1000 ~ <1.7 nits , compatible with Sun light Readable and night vision goggles
- 1 x DVI, 1 x VGA, 1 x Audio, 2 x USB

Specifications

SYSTEM

LCD Panel	12" TFT LCD
Resolution	1024x768 XGA
Aspect Ratio	4:3
Brightness	1000 nits
Response Time	5 ms (TYP.) ²
Contrast Ratio	700 (TYP.)
Touch Panel	Glass-Film-Glass 5-Wire resistor touch panel
Function key	20 user programmable function keys
Display Contro	• Power On/Off • LCD Brightness +/- • Function key backlight On/Off • Display mode Select (On/Off/Night Vision)

POWER

Power Input	9V~36V DC-IN Optional: 12V~40V DC-IN (150W max) MIL-STD-461, MIL-STD-1275, MIL-STD-704 compliant power supply
EMI Filter	Vicor MF028AMFPT (MIL-COTS Filter), compliant with MIL-STD-461, MILSTD-1275, MIL-STD-704, MIL-STD-810 and EN 60950-1.
PRM [®] Regulator	Vicor MP028F036M12AL (MIL-COTS Regulator), compliant with MIL-STD-1275, MIL-STD-704 and EN 60950-1.
VTM [®] Current Multiplier ²	Vicor MVTM36BT030M040B00 (MIL-COTS current multipliers), Overvoltage, Overcurrent, Short Circuit and OverTemperature protection.

CONNECTORS¹

DC-IN	1
X1	VGA + Audio
X3	USB x 2

APPLICATIONS

Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and
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	EMI Conditions. Used in all aspects of the military.
Operating System	Windows: Windows 8 32/64 bit, Windows 10 32/64bit Linux: Fedora 20, Ubyntu 13.10, Ubuntu 14.04

PHYSICAL

Dimension (W x D x H)	370 x 59 x 310mm
Weight	11.7 kg (25.8 lb)
Chassis	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide (Color Olive green)
Connectors	DVI, VGA + Audio : Amphenol TV07RW-13-35S USB: Amphenol TV07RW-13-98S DC-IN: Amphenol TV06RW-11-54S
Ingress Protection	IP65 Dust /water Proof

ENVIRONMENTAL QUALIFICATIONS

MIL-STD-810G	Method 507.5, Procedure II (Temperature & Humidity)
Compliant ²	Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program
EMI/EMC	CE ,FCC , MIL-STD-810G, MIL-STD-1275, MIL-SD-461E compliance
Green Product	RoHS, WEEE compliance

Ordering Information

SKY12 -P20

12" Rugged Smart Display with MIL-DTL-38999 connectors,

20 user programmable function keys, Night Vision

supported

Dimension

