

SKY12-P20

RUGGED SMART DISPLAY WITH 20 PROGRAMMABLE FUNCTION KEYS



- DESIGN FOR RELIABILITY UNDER DEMANDING MIL-STD-810G THERMAL, SHOCK, VIBRATION AND HUMIDITY/EMI/EMC CONDITIONS
- 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
- 12" GLASS-FILM-GLASS TOUCH PANEL
- 20 USER PROGRAMMABLE FUNCTION KEYS
- 1 x DVI, 1 x VGA, 1 x AUDIO, 2 x USB
- COMPLIANT WITH MIL-STD-461, MIL-STD-1275, MIL-STD-704, MIL-STD-810
- EXTENDED TEMPERATURE -20 TO 60 °C

SPECIFICATIONS

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LCD Panel	12" TFT LCD
Resolution	1024x768 XGA
Aspect Ratio	4:3
Brightness	1000 nits
Max. Colors	16.7M/262k
Viewing Angle	80° (H) /70° (V)
Response Time	11ms (TYP.)
Contrast Ratio	1000 (TYP.)
Touch Panel	Glass-Film-Glass 5-Wire resistor touch panel
Function key	20 user programmable function keys
Display Control	<ul style="list-style-type: none"> • 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, MIL-STD-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	Vicor MVTM36BT030M040B00 (MIL-COTS current multipliers), Overvoltage, Overcurrent, Short Circuit and OverTemperature protection.
CONNECTORS	
DC-IN	1
X1	VGA + Audio
X2	DVI
X3	USB x 2

APPLICATIONS, OPERATING SYSTEM	
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 EMI Conditions. Used in all aspects of the military.
Operating System	Microsoft Windows 8 Professional 32/64Bit, Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20.
PHYSICAL	
Dimension (W x D x H)	370 x 59 x 310mm
Weight	TBD
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 Compliant	Method 507.5, Procedure II (Temperature & Humidity) 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

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12" RUGGED SMART DISPLAY WITH MIL-DTL-38999 CONNECTORS, 20 USER PROGRAMMABLE FUNCTION KEYS, NIGHT VISION SUPPORTED

DIMENSION

