

# SKV12-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

SPECIFICATIONS	
LCD Panel	12" TFT LCD
Resolution	1024x768 XGA
Aspect Ratio	4:3
Brightness	1000 nits
Max. Colors	16.2M/262k
Viewing Angle	80° (H) /70° (V)
Response Time	5 ms (TYP.)
Contrast Ratio	700 (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"> <li>• Power On/Off</li> <li>• LCD Brightness +/-</li> <li>• Function key backlight On/Off</li> <li>• Display mode Select (On/Off/Night Vision)</li> </ul>
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	
Applications	<p>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.</p> <p>Used in all aspects of the military.</p>

OPERATING SYSTEM	
OS Support List	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 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

### SKY12 -P20

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

## DIMENSION

