IP65 water-proof Sunlight readable LCD PC
DWP12N

DWP series are all terrain, weather series of LCD PCs for harsh and demanding applications where corrosion resistance and protection from environmental conditions. **DWP series** has lightweight panel computers are housing in the built aluminum alloy enclosure with IP65 sealed connectors. **DWP Series** products offer a range of feature sets optimized for varying requirements and applications. The product range combines state of the art display and computer technology with innovative features and options, making it all that the integrator needs for top class type marine systems. **DWP series** Panel Computer features are LED backlight technology, full dimming and multi-power all as standard. In addition there are options such as SSD storage mediums, multiple interface configurations and several OS options.

DWP12N (12.1") Standard Features,

- **High resolution LED display for all terrain, weather conditions**
- **IP67/NEMA6- 100% sealed of enclosure**
- **Ultra brightness LED back light system, touch by finger to dimming adjust to any light**
- **Display Specification: Display size- XGA 1,024 x 768 pixels.**
  Brightness- 1,000nit (cd/m2)
  Soft touch by finger to dimming adjust(0nit to Full brightness)
  Accept wide range resolution VGA to SXGA
- **Touch Screen: Standard 5W Resistive Touch(Optional: P. Cap Touch**
- **Computer Specification: CPU- Intel® Quad-Core Celeron N3160 Soc(1.6GHz),**
  System Chipset: Intel® Quad-Core Celeron N3160S Soc(1.6GHz)
  SSD: Crucial MX500 250GB SATA 2.5" ,
  Memory: DDR3 4GB 1600MT/S(PC3-12800)
  OS program: Window 10
- **True DC operation system with noise filter available (Free of DC 10V to 38V)**

- **3 way installation (VESA/Panel/Bracket mount)**

Specifications- DWP12N

Display Description		Mechanical Description	
TFT Characteristics		Dimensions	344(W) x 292(H) x 88(D) mm
		Weight	5.5kg
LCD Type	12.1" AM TFT LCD	User Key Controls	Soft touch by finger to window
Max Resolution	1,024 x 768 pixels	Case Material	Aluminum alloy
Active Display Area	245.76 x 184.32 mm	Set Mounting	VESA/Flush mounting
Brightness	1,000 cd/m2 type, (Option: 1,500 cd/m2)	Sealed Rate	Front/Rear sealed IP65 Rated
Response Time	20ms	**Environmental Specifications**	
Contrast Ratio	700:1 type	Operating Temperature	-0 to +60 °C
View Angle	160 ° / 160 °	Storage Temperature	-10 to +80 °C
Pixel Colors	16.7 million	Operating Humidity	0% to 100% (non condensing)
Backlight Cycle	70,000 hours type	Storage Humidity	0% to 100% (non condensing)
Input Signal	VGA, DVI, HDMI	Shock Vibration	10g, 11msec ½ sine+/-1mm, 2 to 13Hz: 0.7g, 13 to 100Hz
Computer Specifications		**In-Output Connectors**	
Installed OS	Window 10	Ethernet GBLan	2
Installed Storage	Crucial MX500 250GB SATA 2.5”	Keyboard	PS2
CPU/Processor	Intel® Quad-Core Celeron N3160 Soc(1.6GHz)	Mouse	PS2
Installed Memory	DDR3 4GB 1600MT/S(PC3-12800)	COM RS-232	COM1-COM6
System Chipset	Intel® Quad-Core Celeron N3160 Soc(1.6GHz)	LPT / Parallel	None
Graphics Chipset	Intel® HD Graphics 3000 processor graphics	DVI or RGB OUT	1xDVI-D or 1xRGB(DB15)
Display	VGAx1,DVIx1,HDMIx1,Intel HD Graphics	USB	2x3.0/8xUSB2.0
Ethernet LAN #1	Intel Gbe PHY 82579 Gbe controller onboard	AC Power	Option: IP68- 4 pins circular type
	2x RJ-45, Gigabit Ethernet	DC Power	IP68 – 3 pins circular type
Audio Chipset	Realtek ALC888 HD audio codec onboard		
BIOS	AMI PnP BIOS/iAMT 7.0 supported		
Speaker / Buzzer	Speaker 0.5W/8Ω	**Power Input Specifications**	
Watchdog Timer	1-255 step	AC Power Input	Option: AC/DC Adapter: 100/250V AC
		DC Power Input	Free Voltage DC10 to 36V
Computer Configurations		Power Consumption	48Watts
CPU	Intel® Quad-Core Celeron N3160 Soc(1.6GHz)	**Touch Screen**	
Memory	DDR3 8GB 1600MT/S(PC3-12800)	Analog Touch	5W-Resistive Touch screen
Storage	MX500 250GB SATA 2.5”	Multi Touch	Projective Capacitive Touch screen
OS Program	Windows 10		

Factory Options

- Sunlight Readable/High Bright(Include optical bonding)Models
- Variations of SSD/HDD Storage, RAM Memory, Operating System

Safety Considerations

Even although, test conditions for bridge units provide for maximum operation temperature of 70℃, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25℃. This is a necessary prerequisite for long life and low service costs.

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