KINGDY

3.5" SBC
Intel® Alder Lake-N

SP-117 SERIES

Front IP65 Silver Aluminum Touch IPC

Features

Intel® IOTG Alder Lake-N Core i3-N305
DDR5 4800 MT/s SODIMM Slot up to 16GB
Display Size: 12" / 15" / 15.6" / 17" / 17.3 / 18.5" / 19" / 21.5" / 24"
5 Wires Resistive (single touch)
IP65 Silver aluminum front bezel
4 x USB , 2 x RS232 , 2 x GLAN, 1 x HDMI, 1 x DP ,Audio
VESA mount & Panel mount & Clip mount
Wide Voltage DC-IN 9~36V



Specifications

Display for 3:4 Ratio							
Size	12.1" TFT	15" TFT	17" TFT	19" TFT			
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024			
Colors	16.7M	16.7M	16.7M	16.7M			
Luminance	350 cd/m2	300 cd/m2	350 cd/m2	250 cd/m2			
Contrast Ratio	800:1	2500:1	1000:1	1000 : 1			
View Angle (H/V)	160°/160°	176°/176°	170°/160°	170°/160°			

Display for 16:9 Ratio							
Size	15.6" TFT		17.3" TFT	18.5" TFT		21.5" TFT	24" TFT
Resolution	1366 x 768	1920 x 1080	1920*1080	1366 x 768	1920*1080	1920*1080	1920*1080
Colors	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
Luminance	400 cd/m2	400 cd/m2	400 cd/m^2	250 cd/m^2	350 cd/m^2	250 cd/m2	250 cd/m2
Contrast Ratio	500 : 1	700 : 1	600 : 1	1000 : 1	1000 : 1	3000 : 1	1000 : 1
View Angle (H/V)	170°/160°	160°/140°	160°/140°	170°/160°	178°/178°	176°/176°	170°/160°

SYSTEM			
CPU	Intel® IOTG Alder Lake-N Core i3-N305, OC, 9W up to 15W		
Memory	Single Channel for DDR5 4800MT/s Up to 16GB		
Storage	1 x SATA 3.0		
OS Support	Windows 10 IoT Enterprise LTSC (64-bit, 21H2) Windows 11 IoT Enterprise LTSC (64-bit, 24H2)	Linux (Support by request)	

I/O Ports	* The I/O interface shown may vary depending on the selected motherboard.		
RS232/422/485	1	**GLAN**	2
RS232	1	**AUDIO**	1
HDMI	1	**USB 3.2 Gen1**	2
DP	1	**USB 3.2 Gen2**	2

Expansion Slot	
M.2	1 x M.2 B key (SATA/PCIe x1), 2242/3042/2280 1 x M.2 E key (PCIe x1, USB 2.0), 2230

MECHANICAL & ENVIRONMENTAL	
Operation Temp.	0 ~ 45°C
Storage Humidity	10 ~ 90%, non-condensing

Form Factor	
Touch Screen	5 Wires Resistive (Single touch)
Mounting	VESA mount (75 X 75 mm) / (100 X 100 mm) & Panel mount & Clip mount
Power Supply	3 Pin Power Terminal Block for DC-in 9~36V
WIFI Optional	External Antenna (Wi-Fi): Supports M.2 Wi-Fi module with external antenna connection for enhanced signal performance