KINGDY

3.5" SBC
Intel® Raptor Lake-P

SP-120 SERIES

Front IP65 Silver Aluminum Touch IPC

Features

Intel® 13th Gen Raptor Lake-P Embedded/Industrial SKU Series
DDR5 5200 MHz SODIMM Slot up to 32GB
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 USB3.2 Gen2, 2 x RS232, 4 x GLAN, 4 x HDMI
VESA mount & Panel mount & Clip mount
DC-in 12~24V



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® Mobile 13th Core™ i7-1365UE , 28W		
Memory	Single-channel DDR5 5200 MHz Up to 32 GB		
Storage	1 x SATA 3.0		
OS Support	Windows 10 IoT Enterprise 2021 LTSC (64-bit, 21H2) Windows 11 IoT Enterprise (64-bit, 23H2, Pre-scan)	Linux (Support by request)	
TPM	Infineon® SLB 9672VU2.0		
I/O Ports	* The I/O interface shown may vary depending on the selected motherboard.		
RS232	2	**GLAN**	4
HDMI	4	**USB 3.2 Gen 2**	4
Expansion Slot			
M.2	1 x M.2 M key (PCIe Gen4 x4 NVMe), 2280 1 x M.2 B key (PCIe x1, USB 2.0, w/NANO SIM-Holder), 2242/3042 1 x M.2 E key (PCIe x1, USB 2.0, w/CNVi), 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 12~24V		