

Product Specification

Product Name	LattePanda Sigma				
Model Number		DFR1080	DFR1081	DFR1090	DFR1091
Processor	CPU	Intel® Core™ i5-1340P			
	Cores / Threads	12C(4P+8E) / 16T			
	Max Turbo Frequency	4.60 GHz(Performance-core), 3.4 GHz(Efficient-core)			
	Base Power	28 W			
	Graphics	Intel® Iris® Xe Graphics			
	Co-processor	Microchip® ATmega32U4-MU			
Memory		Dual-Channel, 16GB LPDDR5-6400	Dual-Channel, 16GB LPDDR5-6400	Dual-Channel, 32GB LPDDR5-6000	Dual-Channel, 32GB LPDDR5-6000
Storage	Capacity	None	500GB WD SN770 PCIe 4.0 x4 SSD	None	500GB WD SN770 PCIe 4.0 x4 SSD
Wireless		None	Intel AX211 WiFi 6E Module	None	Intel AX211 WiFi 6E Module
Display	HDMI Port	HDMI 2.1, Up to 4096 x 2304 @ 60Hz			
	USB Type-C Port	DP 1.4a, Up to 7680 x 4320 @ 60Hz (One Monitor)			
	eDP (Embedded Display Port)	eDP 1.4b, 4 Lanes, Up to 4096 x 2304 @ 120Hz			
External I/O	USB Type-A	2 x USB2.0 (480Mbps), 2 x USB3.2 Gen 2 (10Gbps)			
	USB Type-C	2 x Thunderbolt™ 4 (40Gbps)			
	HDMI	HDMI 2.1			
	Ethernet	2 x 2.5GbE RJ45 Ports			
	Power	5.5mm x 2.5mm DC Jack			
	Audio	3.5mm Microphone Headphone Combo Connector			
	Sim Card	Micro Sim Card Slot			
Internal I/O	USB 2.0	2.0mm Pitch 4-Pin Connector, 480Mbps			
	Fan	1.27mm Pitch,12V 4-Wire Fan Connector, PWM Control			
	SATA	SATA 6 Gbps Data Connector, 2.0mm Pitch 4-Pin Power Connector			
	Front Panel	2.54mm Pitch 9-Pin Header, Supports Power, Reset, Power LED, HDD LED			
	Front Audio Panel	2.54mm Pitch 9-Pin Header, Supports High Definition Audio (HD), Line-Out, Mic-in			
	COM	2.54mm Pitch 9-Pin Header,Supports RS232, RS485			
	GPIO	2.54mm Pitch 34-Pin Header, Including ATmega32U4 I/O Pins, 5V Power Pins, S0/S3/S4 State Pins			
	eDP	0.5mm Pitch 40-Pin Connector, 4 Lanes			
Expansion Slot	M.2 M Key	Type 2280, Supports PCIe 3.0 x4 Type 2280, Supports PCIe 4.0 x4			
	M.2 B Key	Type 2242/2252/2280, Supports SATA 6Gbps/PCIe 3.0 x1, USB2.0, USB3.0, SIM			
	M.2 E Key	Type 2230, Supports PCIe 3.0 x1,USB2.0, Intel CNVio			
Security	TPM	Processor's Built-in TPM (2.0)			
Power	Power Input	5.5mm x 2.5mm DC Jack: DC 12~20V USB Type C: PD 20V			
	Attached Power Adapter	19V DC, 4.74A, 90W			
	RTC Battery	CR1220 Battery Holder: 3V			
Operating System	Microsoft Windows	Windows 10, Windows 11			
	Linux	Ubuntu, Promox VE, etc.			
Environment	Operating Temperature	0~45			
	Relative Humidity	0%~80%RH			
Dimension	Form Factor	3.5", 146 x 102 mm			
Compliance	Certification	CE, FCC, KC, RoHS, UKCA			