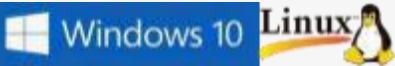


HE-F1215UD14-2TCH

Featured function

- The Intel® Core™ i3-1215U Processor
- Intel® UHD Graphics for 12th Gen Intel® Processors
- 1 DDR4 3200MT/s SO-DIMM memory, max 32GB
- 1 HDMI, 2 EDP, 1 Type-C support a four-screen display
- 2×USB3.0, 1×HSIO, 4×COM, 1×RJ45LAN, 2×M.2
- Support Wake on LAN, no disk guidance, Auto power on.
- Suitable for retail, self-service, all-in-one machine, industrial control and etc.



Because the power consumption of CPU will greatly exceed the TDP, all models with Core i5CPU, or CPU Maximum Turbo Power to 55W models, should be used with at least 12V / 7A adapter, otherwise the core frequency will be protected and automatically power off.

size of

Processor System	
PCB	G-ADLP05
CPU	Intel® Core™ i3-1215U processor 2 + 4C/ 8T 4.4GHz Cache10 MB TDP 15 W
Memory	
Slot Number	1×SO-DIMM
Type	DDR43200MT/s
Max Size	32GB
Channels	1
Graphics	
Controller	Intel® UHD Graphics for 12th Gen Intel® Processors
EDP	2
HDMI	1
Type-C	1
Multi Display	4
Display order	EDP>EDP>HDMI>Type C
Storage	
SATA	1, 12PIN FPC
M.2	1, Key-M, 2280, SATA 3.0 protocol and NVMeX4 protocol for adaptation
COM	
Port Number	4

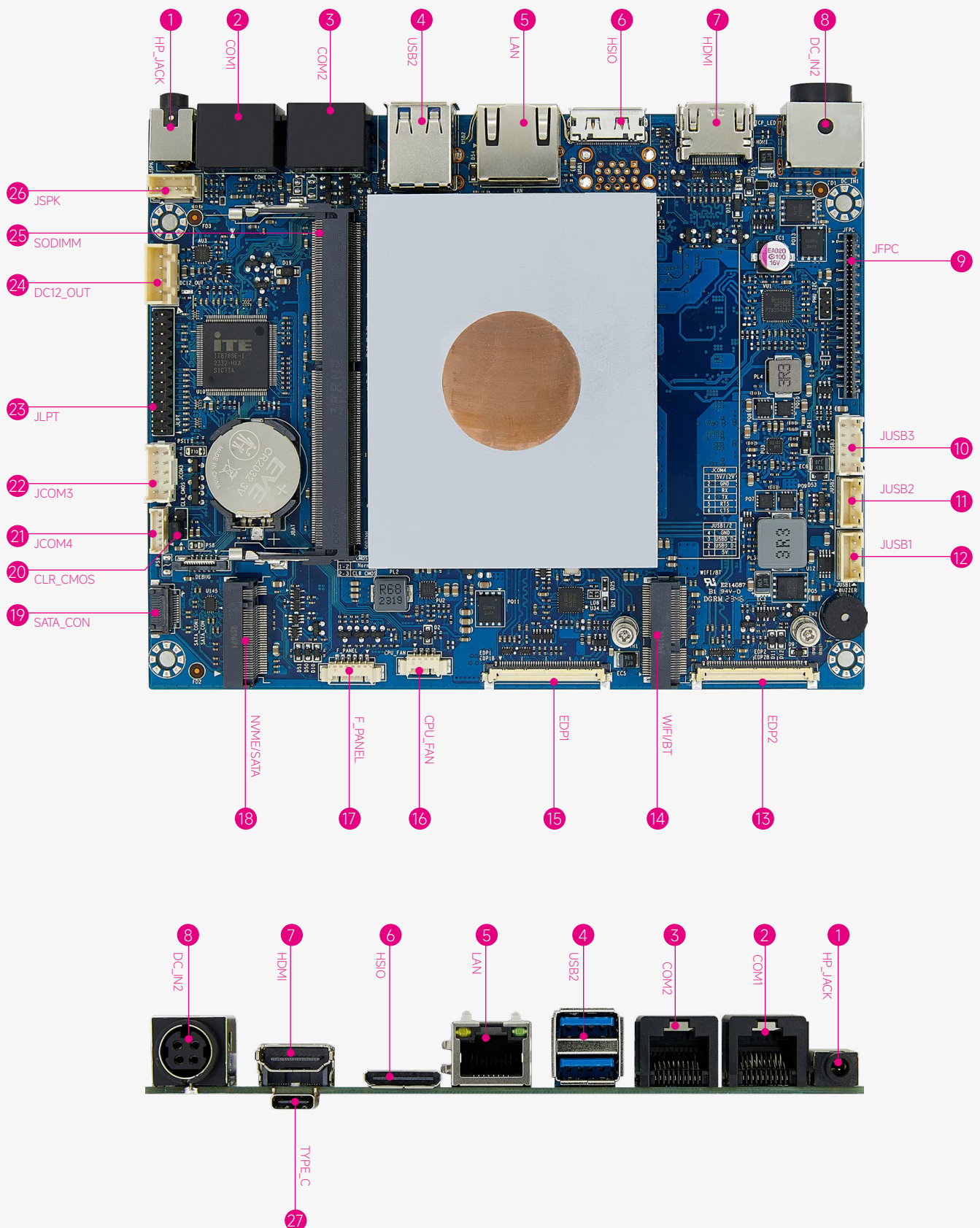
USB signal distribution: eDP 12 USB signals (native), eDP 21 USB signals (native), 2 * 5 PIN pins 2 USB signals (with FPC Co-lay) (native), default needle valid, 21 * 4 PIN pins 2 USB signals (HUB turn), Key-E1 USB signals (HUB turn), Type C1 USB signals (HUB turn)

Order information

Model name		major dispositions						
GE-F1215UD14-2TC	Intel®Core™i3-1215U CPU2+4C/8T4.4GHz Cache10 MBTDP 15 W	1×RJ45 LAN	4 ×USB3.0	4×COM	2×EDP	1×HDMI	1×TYPE C	
GE-F1235UD14-2TC	Intel®Core™ i5-1235UCPU 2+8C/12T 4.4GHz Cache12 MBTDP 15 W	1×RJ45 LAN	4 ×USB3.0	4×COM	2×EDP	1×HDMI	1×TYPE C	
GE-F1215UD14-2TCH	Intel®Core™i3-1215U CPU2+4C/8T4.4GHz Cache10 MBTDP 15 W	1×RJ45 LAN	2×USB3.0 1×HSIO	4×COM	2×EDP	1×HDMI	1×TYPE-C	
GE-F1350PED14-2TC	Intel®Core™ i5-1350PE CPU 4+8C/16T4.6GHz Cache12 MBTDP28 W	1×RJ45 LAN	4 ×USB3.0	4×COM	2×EDP	1×HDMI	1×TYPE C	

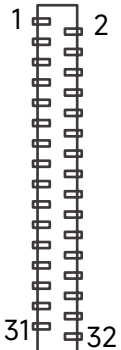
Mode	COM1: RJ 48 serial port, standard RS232 mode, Rlpin optional 5V/ 12V charged (recoverable fuse skipping, default) COM2: RJ 48 serial port, standard RS232 mode, Rlpin optional 5V/ 12V charged (BIOS selection, default not charged) COM3:Wafer2*5pin2.0mm Spacing (full signal), standard RS232 mode, Rlpin optional 5V/ 12V charged (BIOS selection, default inactive) COM4: Wafer1*6pin1.25mm spacing (four wire)	
Expansion Slot		
M.2	1, (Key-E, 2230, supporting Wi-Fi & BT)	
IO& Connector		
Rear/O	1 DC _ IN (black)	1 * Double USB3.2 seat (blue)
	1 HDMI (black)	1 HSIO (silver)
	1 TypeC (black)	2 RJ 48 (black)
	1 RJ 45 (black)	1 Audio (black)
Internal Connector	2× EDP	2×M.2
	1×CPU_FAN	1×SATA3.0
	1×JLPT	1×DC12_OUT
	1×JSPK	1×FPC (2 USB, 2 COM)
	1×F_PANEL	3 ×JUSB(4*USB2.0)
	1×DDR4SO-DIMM	2 ×JCOM
Internal Jumper	1×CLR_CMOS	/
Mechanical& Environment		
Dimension	150×120mm	
PWR Input	DC12V	
Operation	0~60℃ ,10%~90%RH,non- condensing	
Storage	-25~75℃ ,5%~95%RH,non-condensing	

1. Interface Diagram

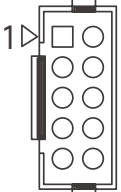


2. I/O Port Definition

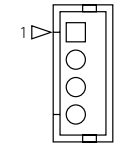
9 JFPC(2*16Pin Φ 1.0mm 180° Black

图示	Pin	定义	Pin	定义
	1	12V	2	12V
	3	12V	4	12V
	5	12V	6	12V
	7	N/A	8	GND
	9	GND	10	GND
	11	GND	12	GND
	13	GND	14	GND
	15	VCC5	16	SOUT5
	17	SIN5	18	CTS5
	19	RTS5	20	SOUT6
	21	SIN6	22	CTS6
	23	RTS6	24	GND
	25	GND	26	USB2_P8
	27	USB2_N8	28	GND
	29	USB2_P9	30	USB2_N9
	31	GND	32	POWR_USB1

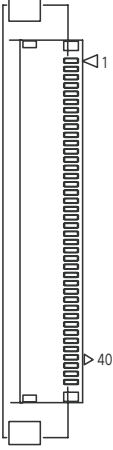
10 JUSB3 (2*5Pin Φ 2.0mm 180° white)

图示	Pin	定义	Pin	定义
	1	VCC5V	2	VCC5V
	3	D-	4	D-
	5	D+	6	D+
	7	GND	8	GND
	9	GND	10	NC

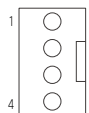
11 12 JUSB2/1 (1*4Pin Φ 2.0mm 180° white)

图示	Pin	定义
	1	5V
	2	D-
	3	D+
	4	GND

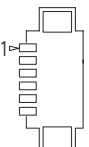
13 15 EDP2/1 (1*40Pin Φ0.5mm gold)

图示	Pin	定义	Pin	定义
	1	NC	21	GND
	2	GND	22	BKLTEN
	3	TX1-	23	PWM
	4	TX1+	24	NC
	5	GND	25	NC
	6	TX0-	26	EDP_12V
	7	TX0+	27	EDP_12V
	8	GND	28	EDP_12V
	9	AUX+	29	EDP_12V
	10	AUX-	30	NC
	11	GND	31	GND
	12	VDD_EDP	32	GND
	13	VDD_EDP	33	NC
	14	NC	34	NC
	15	GND	35	NC
	16	GND	36	NC
	17	HPD	37	GND
	18	GND	38	USB_P
	19	GND	39	USB_N
	20	GND	40	VCC5_USB

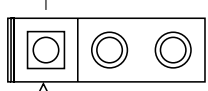
16 CPU_FAN(1*4Pin Φ1.25mm 90° white)

图示	Pin	定义
	1	GND
	2	+12V
	3	FAN SPEED
	4	SPEED control

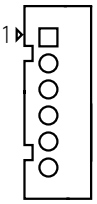
17 F_PANEL (1*6Pin Φ1.25mm90°

图示	Pin	定义
	1	PWRBT
	2	R_LED
	3	G_LED
	4	B_LED
	5	GND
	6	GND

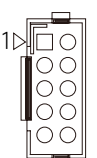
20 CLR_CMOS (清 CMOS 跳帽 1*3 Pin Φ2.0mm 180° B l a c k)

图示	Pin	定义
	1-2	Normal
	2-3	Clear CMOS

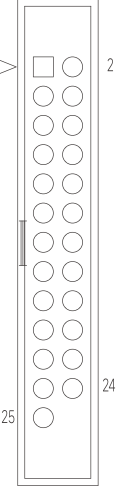
21 JCOM4 (1*6 Pin Φ1.25mm 180° 米白色)

图 示	Pin	定 义
	1	VCC
	2	GND
	3	SIN
	4	OUT
	5	RTS
	6	CTS

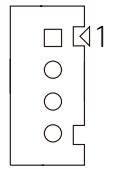
22 JCOM3 (2*5Pin Φ2.0mm 180° 白色)

图 示	Pin	定 义	Pin	定 义
	1	DCD	2	RXD
	3	TXD	4	DTR
	5	GND	6	DSR
	7	RTS	8	CTS
	9	RI	10	CUT AWAY

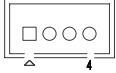
23 JLPT (2*13Pin Φ2.0mm 180° 黑色)

图 示	Pin	定 义	Pin	定 义
	1	STB	2	AFD
	3	D0	4	ERR
	5	D1	6	INIT
	7	D2	8	SLIN
	9	D3	10	GND
	11	D4	12	GND
	13	D5	14	GND
	15	D6	16	GND
	17	D7	18	GND
	19	ACK	20	GND
	21	BUSY	22	GND
	23	PE	24	GND
	25	SLCT	26	GND

24 DC12_OUT (1*4 Pin Φ2.5mm 180° 米白色)

图 示	Pin	定 义
	1	12V
	2	12V
	3	GND
	4	GND

26 JSPK (1*4 Pin Φ2.0mm 180° 米白色)

图示	Pin	定义
	1	R-
	2	R+
	3	L+
	4	L-