

Specification

Form Factor	170x170x21mm(LxWxH)	
Intel Processor	M218F-UA: Support Intel Celeron J1800 CPU; M219F-UA: Support Intel Celeron J1900 CPU; M229F-UA: Support Intel Pentium J2900CPU.	
Chipset	Intel Bay trail SOC Chipset	
Memory	1xNB-DDR3 SODIMM 1333/1600MHz 1.35V Memory slot,up to 8GB RAM.	
Power Supply	1xDC JACK	DC port size: 5.5x2.5MM; Support DC 12V.
	1xDC_PWR	Full load power consumption of the motherboard is about 30W; Recommend 12V 4A and above power adapter.
Display Function	Integrated Intel HD Graphics in CPU; Support single display,dual display copy/expansion,single display under DOS.	
	1xVGA DB15 interface	Support resolution 1920x1080@60Hz
	1xVGA OUT pin	Support resolution 1920x1080@60Hz (12Pin,1x12Pin,2.0mm)
	1xHDMI 1.4 interface	Support resolution 1920x1080@60Hz
	1xHDMI_CON pin	Support resolution 1920x1080@60Hz (12Pin,1x12Pin,2.0mm)
	1xLVDS pin	Support resolution 1920x1080@60Hz (30Pin,2x15Pin,2.0mm)
	1xLVDS_PWR pin	LVDS voltage control pin (6Pin,2x3Pin,2.0mm)
	1xINVERT pin	LVDS backlight switch control pin (6Pin,1x6Pin,2.0mm)
Ethernet	1xRJ45 LAN interface	Option 1: 10/100Mbps RTL8105E/RTL8106E LAN chip; Option 2: 10/100/1000Mbps RTL8111F LAN chip;
Storage		Support Wake on LAN and PXE diskless boot function.
	1xMINI_PCIE interface	Support optional WIFI/3G/4G/Bluetooth/GPS module.
	1xSATA interface	Standard SATA2.0 hard disk interface
	1xMSATA interface	Support MSATA 2.0
	1xSATA_PWR pin	It is hard disk power supply pin and can take the 5V,12V electricity. (4Pin,1x4Pin,2.54mm)
Sound Function	Integrated Cmedia HS-100B USB HD Audio chip(Default); Option Realtek ALC662/892 HD Audio chip(Different price). Not support Windows Embedded systems , Custom systems, Special system.	
	1xLINE OUT interface	Support Audio output(Green)
	1xMIC_IN interface	Support Microphone input(Pink)
	1xJAMP pin	This is the amplifier pin. It supports 8 Ω 5W speaker dual channel output. (4Pin,1x4Pin,2.0mm)
USB Function	1xUSB3.0 interface	Rear standard USB3.0 interface(Blue)
	3xUSB2.0 interfaces	Rear standard USB2.0 interface(Blue and Black)
	1xF_USB1 pin	Front USB2.0 pin; One group has 2xUSB2.0 (9Pin,2x5Pin,2.54mm)
	1xF_USB2 pin	Front USB2.0 pin; One group has 2xUSB2.0 (9Pin,2x5Pin,2.54mm)
Switch	1xF_USB3 pin	Front USB2.0 pin; One group has 2xUSB2.0 (9Pin,2x5Pin,2.54mm)
	1xF_PANEL pin	Switch, power supply light, hard disk light, restart pin. (9Pin,2x5Pin,2.54mm)
Serial Port	COM1, COM2, COM5, COM7, COM8, COM9, COM10	Support RS232; (9Pin,2x5Pin,2.54mm)
	COM3, COM4	Option RS232/422/485; (9Pin,2x5Pin,2.54mm)
	COM6	Option RS232/485; (9Pin,2x5Pin,2.54mm)
	1xJPCOM1/2/3 pin	Control the 9th pin of the COM1/2/3 to choose optional 0V/5V/12V. (6Pin,2x3Pin,2.0mm)
	1xJLPT pin	Parallel port, standard print port pin. (25Pin,2x13Pin,2.0mm)
Other I/O	1xSIM card slot	Support SIM card. A SIM card is required when using 3G/4G function.
	1xCLR_CMOS pin	Motherboard discharges,clears pin. (3Pin,1x3Pin,2.54mm)
	1xPS/2 pin	Standard PS/2 interface pin (7Pin,1x7Pin,2.0mm)
	2xFAN pins	Fan pin (3Pin,1x3Pin,2.54mm)
	1xJ_GPIO pin	GPIO control pin (10Pin,2x5Pin,2.0mm)
Operating Environment	Operating temperature:-20℃~60℃; Working humidity:5%~95% Relative humidity, no condensation.	
BIOS	AMI BIOS; Support power on,timing switch,remote switch,intelligently identify devices.	
Watch Dog	Watchdog programming, support hardware reset function (256 levels, 0~255 seconds)	
Operating System	Compatible with Windows 10,Windows 8,Windows 7,Linux,etc.	