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MF-001

(P/N: MF-001-A10-C001)

Product Specification

Rev. 1.0

2017/10/23

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Revision History

Rev	Brief Description of Changes	Date of Issue	Author(s)
0.1	Initial document issued	2016/12/23	Alan Lan
1.0	Final SPEC	2017/10/02	Alan Lan

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Main Specifications

MF-001		
Board	CPU/Chipset	Intel® Atom™ x5-Z8350 Processor (2M Cache, up to 1.92 GHz)
	Memory	2GB / 4GB DDR3L-1600
	Graphics	Intel® HD Graphics
	Display	HDMIx1 (For Production / RMA / Development)
	Storage	16GB eMMC 1x micro SD Slot
	Ethernet	Realtek RTL8111G-CG or compatible (1Gb/s)
	Audio	Custom USB to Audio Solution: USB to Audio XUF208-128-TQ64 (XMOS), Amplifier TAS5717PHP (TI) 2 x MIC connector 2 x Speaker Out (5W 8Ohm each)
	USB	1x USB3.0 Type A 1x USB2.0 for WEBCAM 1x USB2.0 to Audio Solution 1x USB2.0 for WIFI 1x USB2.0 for BT 1 x USB to SD Card
	SD Card	Genesys.GL835
	Sensor	BNO055 through I2C (9-axis Absolute Orientation Sensor)
	WIFI/BT	Wi-Fi: MediaTek RT5572 Bluetooth: CSR CSR8510
	Expansion Slots	CUSTOM PIN-OUT ON DIFFERENT 26 PIN CONNECTOR
I/O	Display I/O	1x HDMI (For Production / RMA / Development)
	Audio I/O	2 x MIC 2 x Speaker Out
	LAN I/O	1x RJ45
	USB I/O	1x USB 3.0 Type A
	UART Port	2 x HSUART TTL (TX/RX) in 26 PIN CONNECTOR (up to 3,686,400 bits per second) 1 x HSUART TTL (TX/RX/CTS/RTS) to BT 1 x Debug UART for debug connector

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Placement	GPIO	<ul style="list-style-type: none"> 3 x GPIO for Volume CTRL 3 x GPIO in 26 PIN CONNECTOR for nRESET_HEAD, nRESET_TORSO, GPIO_HEAD 1 x GPIO for Wi-Fi power reset 1 x GPIO for Bluetooth power reset 1 x GPIO for Webcam power reset 1 x GPIO for HSIC power reset 1 x GPIO for USB3.0 power reset 1 x GPIO for SD Card power reset 	
	Rear I/O Ports	<ul style="list-style-type: none"> 1 x USB 3.0 connector 1 x Ethernet RJ45 1 x Micro SD Card slot 1 x Reset button 1 x HDMI (For Production / RMA / Development) 	
Internal I/O Connectors	Internal I/O Connectors	<ul style="list-style-type: none"> 1 x micro SD connector 2 x 2 pin Speaker connector 2x 10 pin MIC connector 1 x 3 pin Volume Control Connector 1 x 3 pin debug connector 1 x 5 pin WEBCAM connector 1 x 26 PIN CONNECTOR 2 x [1x2] pin header(reset/RTC) 1 x BIOS programming pin header 3 x WIFI/BT Antenna ipex head 	
	Operating Temp.	0~60°C	
	Operating Humidity	10% ~ 80%RH, non-condensing	
	Certificate	FCC Class B with Mayfield system	
	Form Factor	130mmx100mmx20mm 4x 3.2mm mounting holes at the corners for M3 screw, Keepout around mounting holes is 4mm radius to hole center	
	Power	5V(8A) in and 12V(1.5A) in from 26pin connector	
	Others	OS Supported	Linux (UBUNTU 14.04)