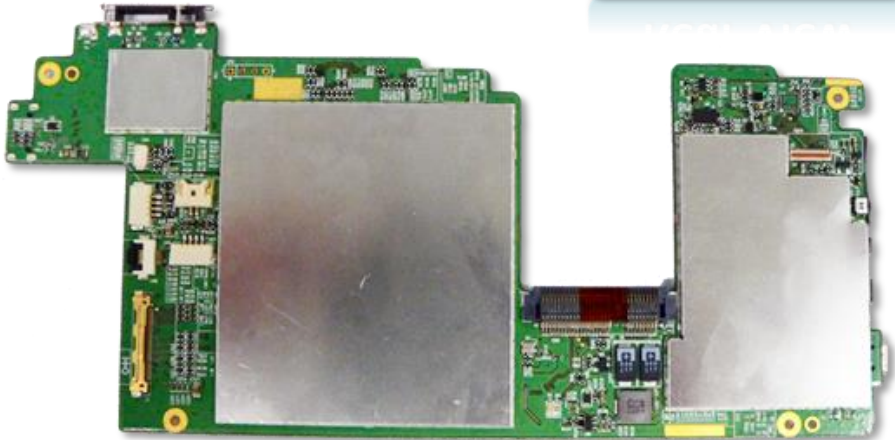


Front View



- ### ARM Cortex™-A8 Motherboard
- Freescale i.MX53 1.0 GHz high performance processor
 - Supports Accelerometer, eCompass and Ambient Light
 - 2 Parallel Camera connectors
 - LVDs, I2C, Mini USB(OTG) I/O interface
 - WiFi 802.11b/g/n and Bluetooth support
 - Supports Android, Linux, Java, Greenhill's

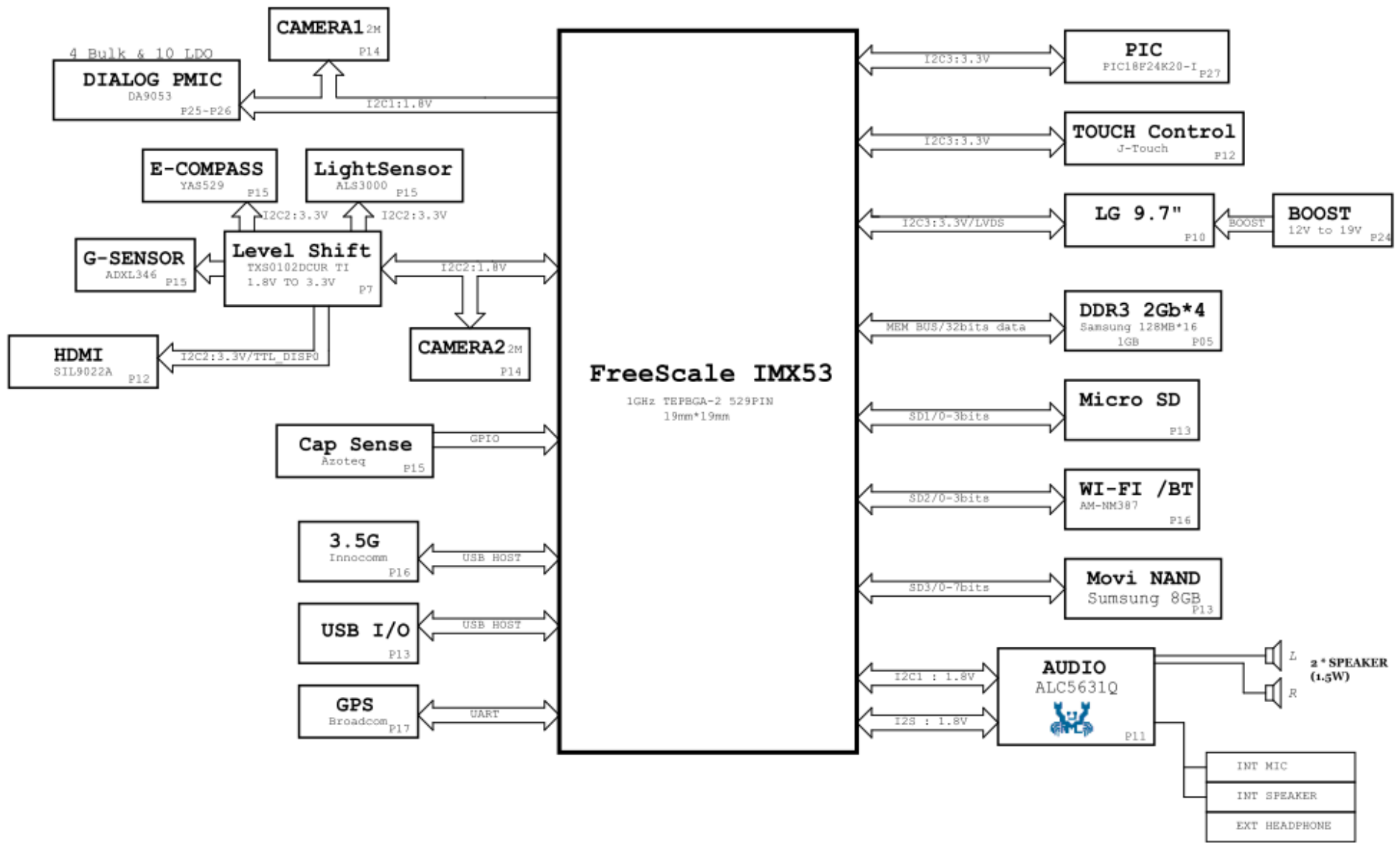
Rear View



TFE03 Board Function Block Diagram



Mobile Division



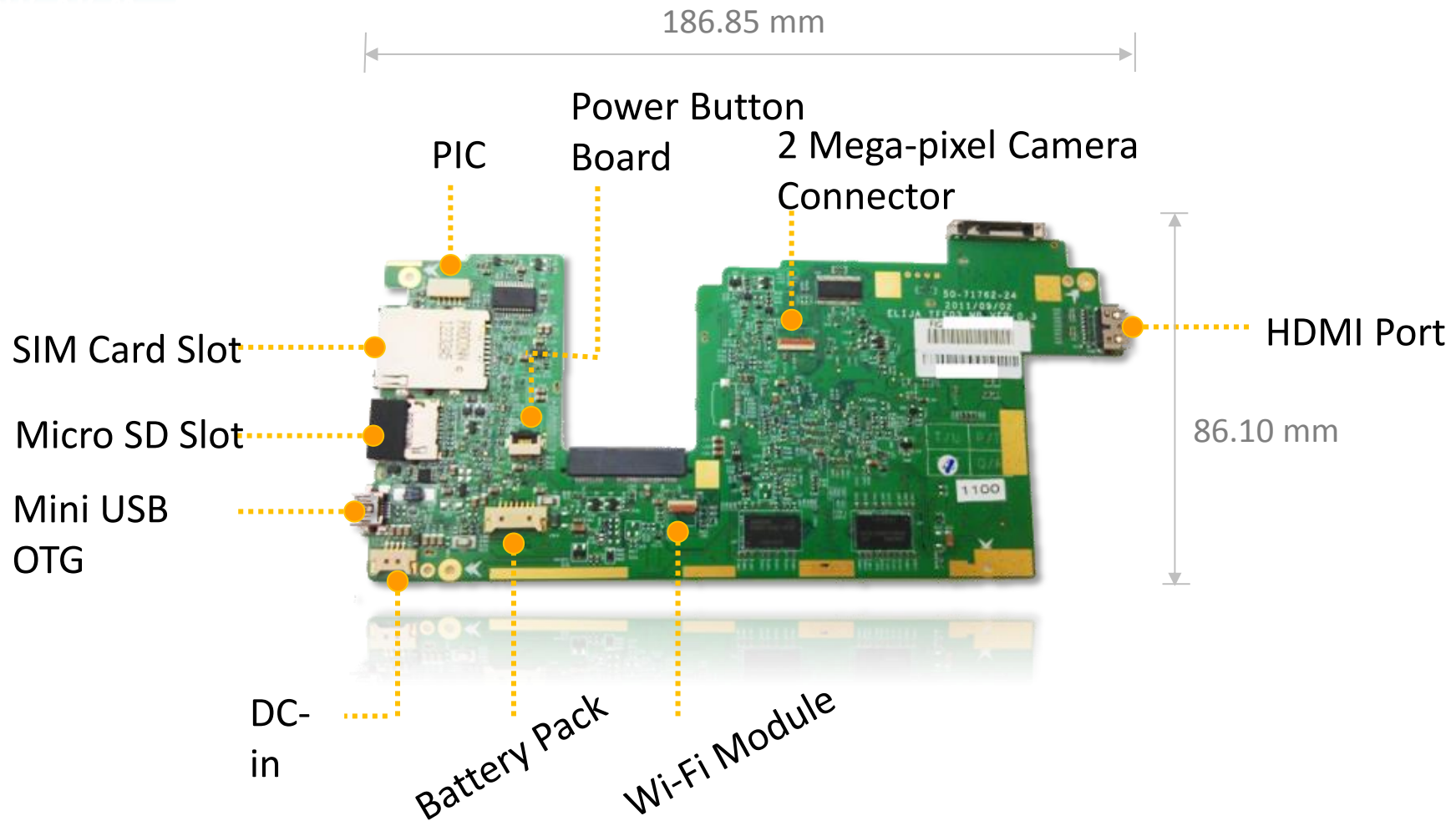
TFE03 Board Specification



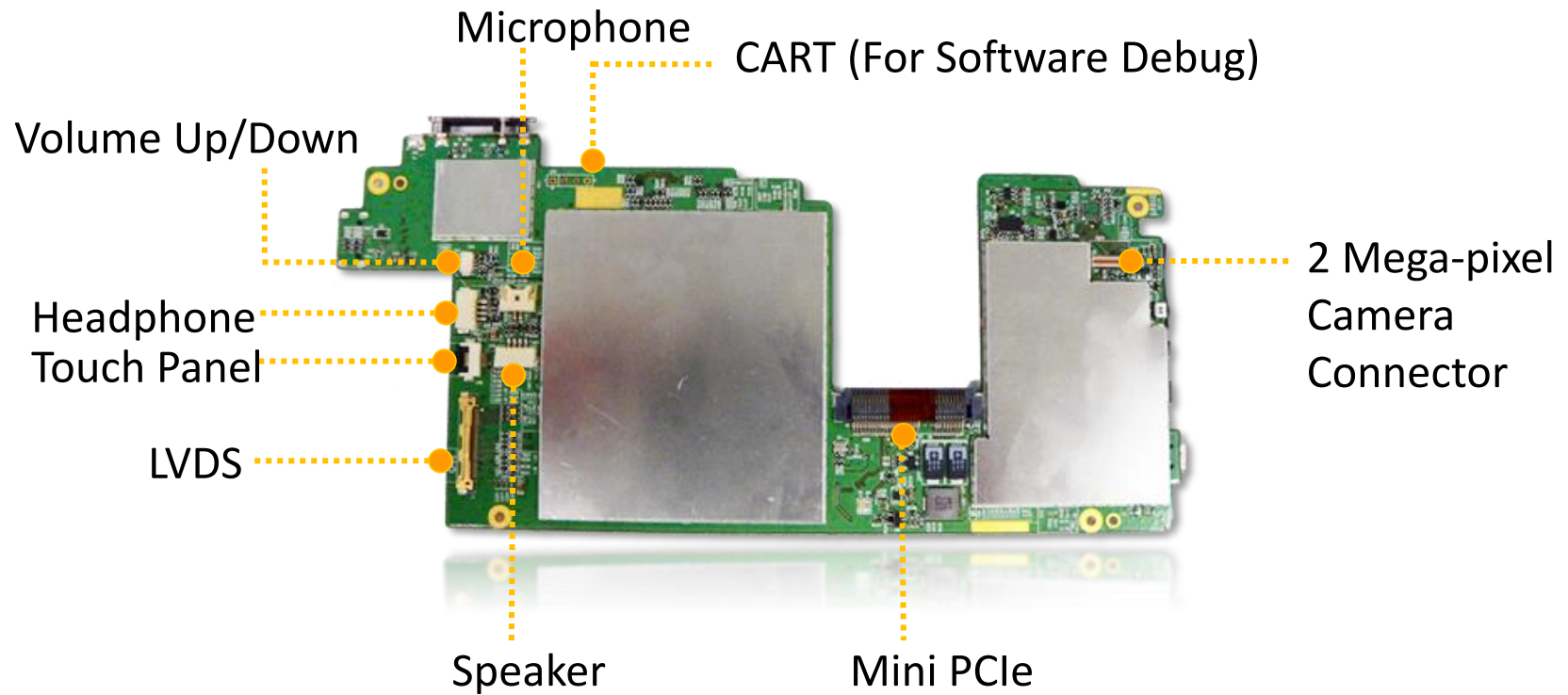
Mobile Division

Processor		FSL i.MX535 1.0Ghz
DRAM	DDR3	1GB DDR3 Samsung
External Memory	eMMC	4GB / 8GB eMMC MoviNAND
	SD Card Socket	1 x micro SD card slot
Video	HDMI	1 x micro HDMI
	LVDS Connector	1 x LVDS
	Camera	2 x Paraller Camera connector
	Touch	1 x I2C connector for TPM
Audio	Audio Codec	Realtek ALC5631Q
	Stereo input	1 x 3.5mm earphone Jack (daughter board)
	MIC input	N/A
	Microphones	1 x Microphone (wired)
	Speakers	2 x Stereo Speakers
	Volume Control	1 x Volume up/down button (daughter board)
Sensors	Accelerometer	ADI ADXL345
	eCompass	Yamaha YAS529
	Ambient Light	LSC AL3000A (daughter board)
Connectivity	USB OTG	1 x Mini USB Type A/B
	Ethernet	N/A
	Serial Debug	1 x Serial Debug 4 pin connector
	WiFi/Bluetooth	1 x SDIO connector for an external module
	Mini-Card	1 x Full size USB interface
	GPS	Broadcom BCM4751
	SIM	1 x SIM card slot
Power	Power Mgt	PMIC Dialog PMU DA9053
	Battery charging	Battery charger
	DC-in	1 x DC-in Jack (wired)
	Power Supply	Output: 12V / 1.5A
Others		1 x Reset button, 1 x GPS antenna is on TFE03 mainboard

Front View



Rear View



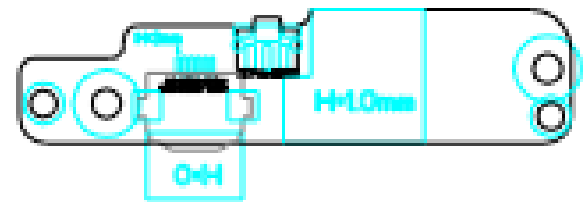
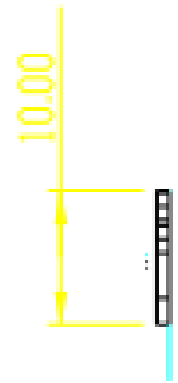
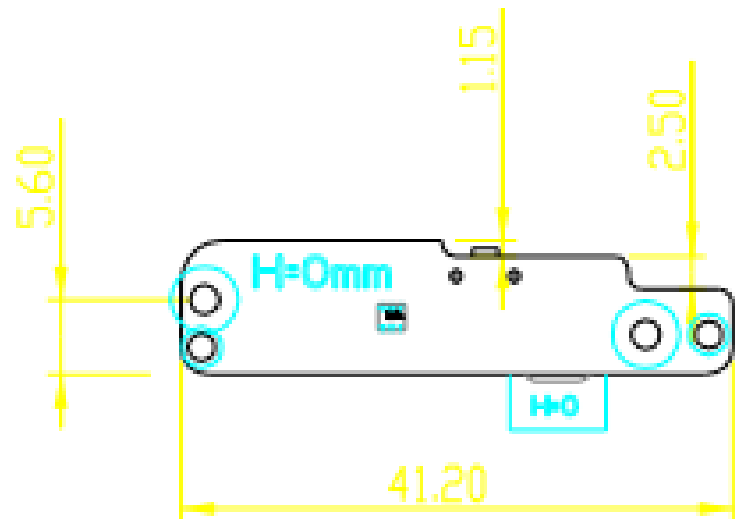
TFE03 Power Button Board Dimensions

Bottom Side

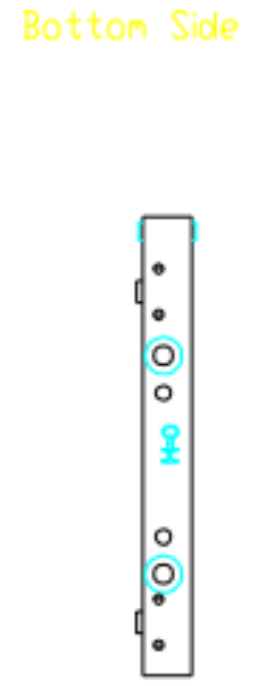
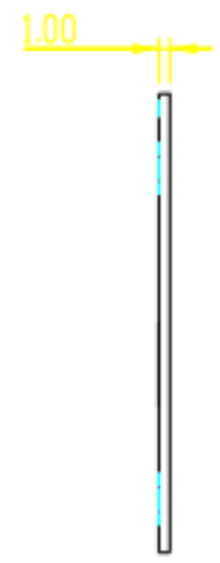
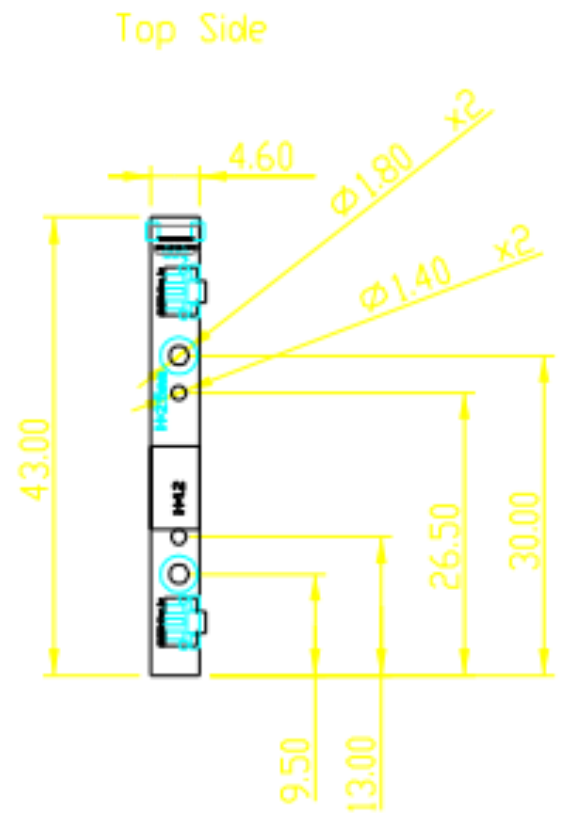
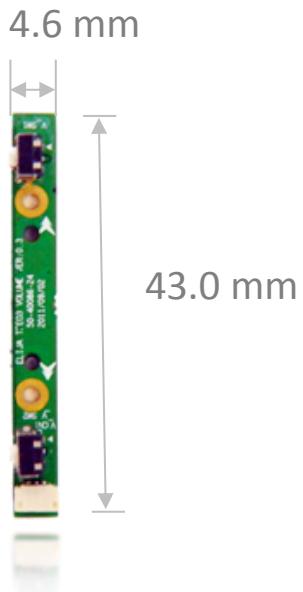
Top Side

41.2 mm

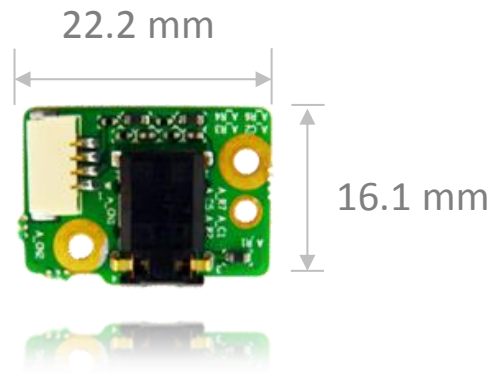
10.0 mm



TFE03 Volume Button Board Dimensions

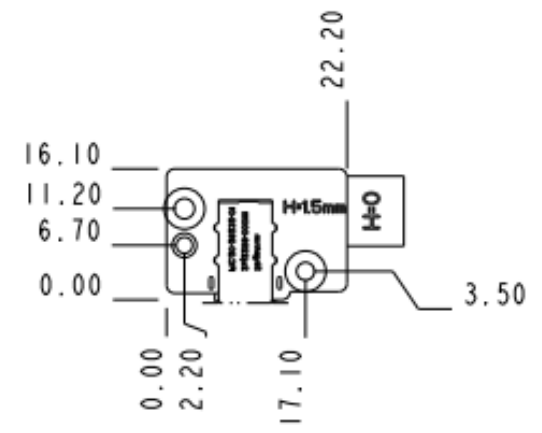
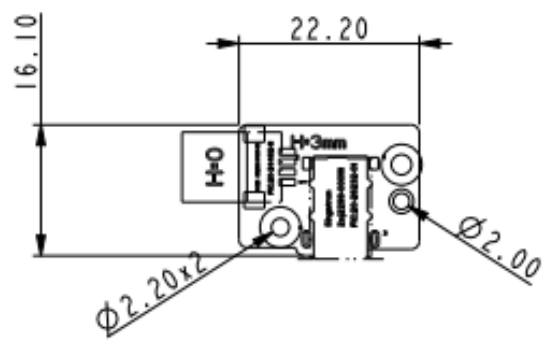


TFE03 Earphone Jack Board Dimensions



Top Side

Bottom Side



Volume board Earphone Jack board, Speaker, Touch, Back Camera and Front Camera

CN4		
Pin	Define	Function
1	Volume_UP	Volume Button Board
2	Volume_Down	
3	GND	

CN6		
Pin	Define	Function
1	HPDET	Earphone Jack Board
2	A_HPOUT_R	
3	A_HPOUT_L	
4	A_GND	

CN7		
Pin	Define	Function
1	SPKOUTL_N	Speaker Connector
2	SPKOUTL_P	
3	SPKOUTR_N	
4	SPKOUTR_P	

CN8		
Pin	Define	Function
1	3VDDM	Touch Connector
2	I2C3_SDA	
3	I2C3_SCL	
4	Touch_RST#	
5	INT	
6	GND	

CN10		
Pin	Define	Function
1	GND	Back Camera
2	CAM1_RESET#	
3	CAM1_EN	
4	GNS	
5	CAM1_PIXCLK	
6	GND	
7	CAM1_SCLK	
8	GND	
9	I2C1_SCL	
10	I2C1_SDA	
11	CAM1_DATA17	
12	CAM1_DATA16	
13	CAM1_HSYNC	
14	CAM1_VSYNC	
15	CAM1_DATA10	
16	CAM1_DATA11	
17	CAM1_DATA15	
18	CAM1_DATA14	
19	CAM1_DATA13	
20	CAM1_DATA12	
21	GND	
22	CAM1_AVDD	
23	CAM1_IOVDD	
24	CAM1_IOVDD	
25	GND	

CN12		
Pin	Define	Function
1	GND	Front Camear
2	CAM2_RESET#	
3	CAM2_EN	
4	GND	
5	CAM2_PIXCLK	
6	GND	
7	CAM2_SCLK	
8	GND	
9	I2C2_SCL	
10	I2C2_SDA	
11	CAM2_DATA17	
12	CAM2_DATA16	
13	CAM2_HSYNC	
14	CAM2_VSYNC	
15	CAM2_DATA10	
16	CAM2_DATA11	
17	CAM2_DATA15	
18	CAM2_DATA14	
19	CAM2_DATA13	
20	CAM2_DATA12	
21	GND	
22	CAM2_AVDD	
23	CAM2_IOVDD	
24	CAM2_IOVDD	
25	GND	

Wi-Fi, Battery, Power button board, DC-in, Microphone and LVDS

CN16		
Pin	Define	Function
1	GND	Wifi Connector
2	3.3V	
3	3.3V	
4	NA	
5	NA	
6	SD2_DAT3	
7	SD2_CLK	
8	SD2_DAT2	
9	SD2_DAT1	
10	SD2_DAT0	
11	SD2_CMD	
12	GND	
13	SLEEP_CLK	
14	3.3V	
15	PDn	
16	1.8V	
17	GND	

CN18		
Pin	Define	Function
1	GND	Battery Connector
2	GND	
3	DET	
4	SMCLK	
5	SMDAT	
6	VBAT	
7	VBAT	

CN19		
Pin	Define	Function
1	I2C2_3V3_SDA	Power button Board
2	I2C2_3V3_SCL	
3	ALS_INT	
4	GND	
5	POWSW	
6	3VDDM	

J1		
Pin	Define	Function
1	NC	LVDS connector
2	LCD_19V6-	
3	LCD_19V5-	
4	LCD_19V4-	
5	LCD_19V3-	
6	LCD_19V2-	
7	LCD_19V1-	
8	NC	
9	LCD_19V+	
10	LCD_19V+	
11	NC	
12	GND	
13	LVDS_TX0-	
14	LVDS_TX0+	
15	GND	
16	LVDS_TX1+	
17	LVDS_TX1-	
18	GND	
19	LVDS_TX2+	
20	LVDS_TX2-	
21	GND	
22	LVDS_CLK+	
23	LVDS_CLK-	
24	I2C3_SDA	
25	I2C3_SCL	
26	GSP	
27	VLCD_3V3	
28	VLCD_3V3	
29	VLCD_3V3	
30	GND	

DC-IN1		
Pin	Define	Function
1	DCIN	DC-in Conenctor
2	DCIN	
3	GND	
4	GND	

MIC1		
Pin	Define	Function
1	MIC1_N	Microphone
2	MIC1_P	



9.7" Stylish tablet

A highly desirable tablet which brings the whole new digital world to your fingertips by wild connectivity .

Key Specification

Operating System	• Android™
CPU	• Freescale™ i.MX53 processor, 1.0GHz • ARM Cortex™-A8 core architecture
Storage	• 8GB e.MMC NAND Flash
System Memory	• DDR3, up to 1GB
Display	• 9.7-inch, IPS panel • 1024x768 resolution • Capacitive multi-touch screen
Interface	• Mini USB, mini HDMI, micro-SD slot, volume control, earphone jack
Wireless	• Wi-Fi 802.11b/g/n • Bluetooth® 3.0+HS
Camera	• 2.0MP dual cameras (Front and rear facing)
Power Supply	• 7.4V / 25.9Wh Li-Polymer battery
Dimensions	• 244.8 x 191.7 x 12.5 mm (WxDxH)
Weight	• Approx. 700g
Others	• Sensors: G-sensor, E-compass • GPS receiver

