

Multi Function Panel PC

AIO MDT with 7" TFT LCD 250 cd/m2, Freescale iMX6 Dual Light 1.0GHz, 2G DDR3, 8G eMMC, 4-Wire T/S, Ubolx MAX-M8 GPS, Android 4.2



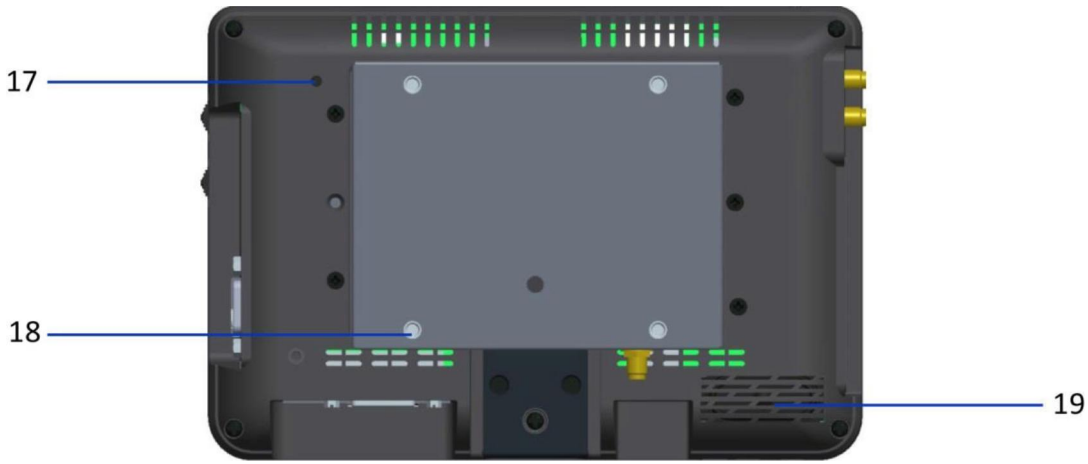
Model: iTCW700

FEATURES



	Function	Description
1	Power LED	Green LED for System active status indication.
2	Storage LED	Orange LED for Micro SD/eMMC storage access indication.
3	Brightness Control	5-Level for LCD brightness control.
4	Volume Control	5-Level for speaker volume control.
5	USB 2.0 Port	X2 USB 2.0 Type A connector.
6	Serial Port LCD	RS-422/RS-232 with DB9 connector.
7	On/Off button	LCD Black Light on/off control.
8	Function	X4 Programmable function key.
9	Key Light Sensor	Ambient light sensor.
10	Micro SD Door	Micro SD door cover with screw.
11	GPS Antenna 3G	SMA Female type connector for GPS external antenna.
12	Antenna Wi-Fi	SMA Female type connector for 3G external antenna.
13	Antenna Slide	SMA Male type connector for Wi-Fi external antenna.
14	Switch 26pin	Power on/off Slide Switch
15	Connector	Mini SCSI 26pin combo for CB/ACC power, DI.
16	Ethernet Port	10/100/1000 Ethernet port with RJ45 connector.

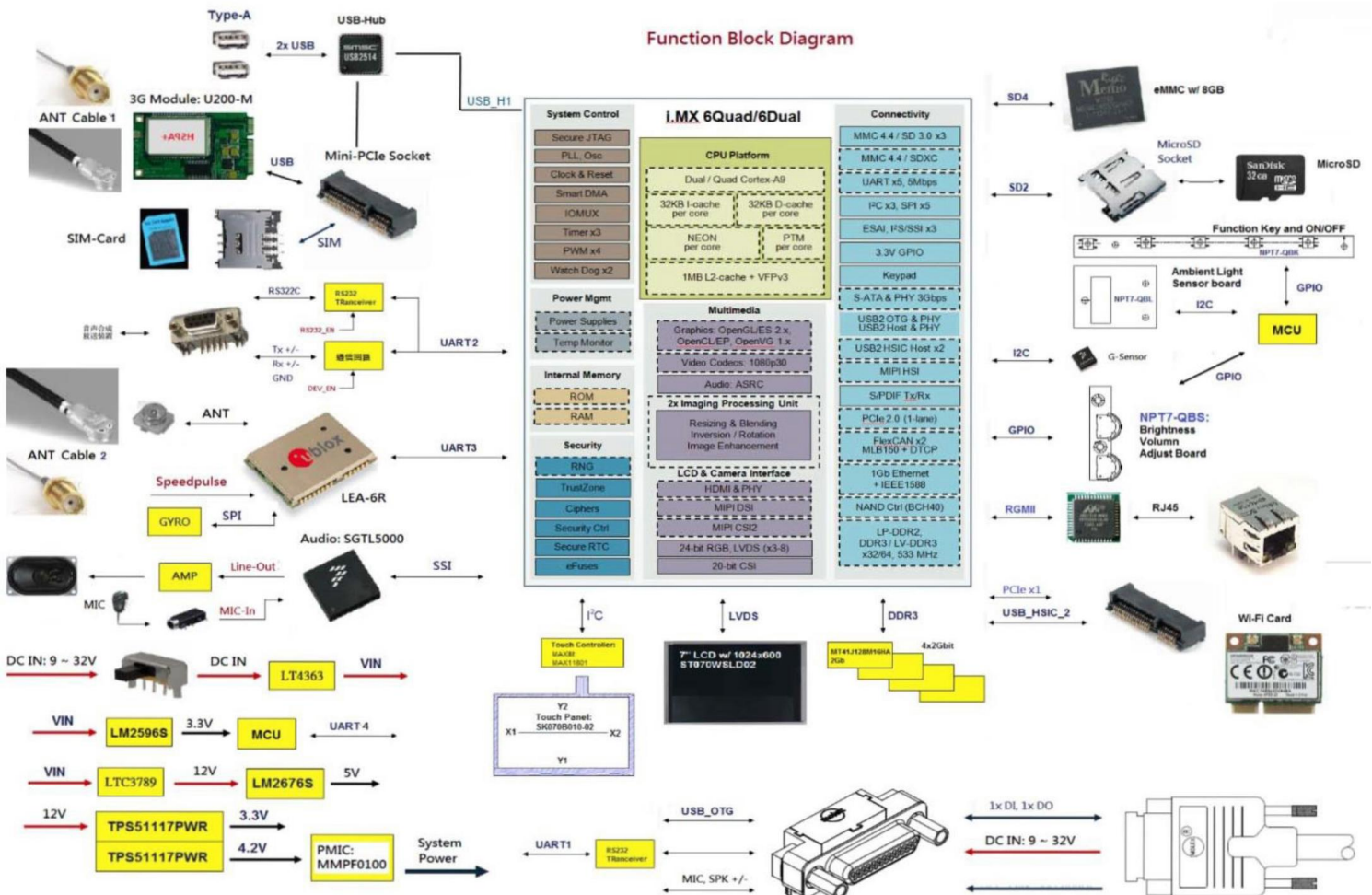
(Note: The final Color will be dominated by final product)



	Function	Description
17	Reset Switch	System reset switch
18	VESA Mount	VESA 75mm x 75mm
19	Speaker	2W Mono speaker

(Note: The final Color will be dominated by final product)

BLOCK Diagram



SPECIFICATIONS

Mechanical	Dimension	200(W)×139(H)×52(D) mm x mm x mm
	Weight	900g
	Color	Black
	Mounting	VESA 75x75mm
Cooling	Cooling Method	Passive cooling (Fan-less)
	Cooler Type	Passive heat-sink
Software	OS	Android 4.2
Function	CPU	Freescale i.MX6 Dual Light/Dual/Quad Core w/: > 2x Cortex-A9 @ 1GHz, 40nm
	GPU	3D: Vivante GC2000 200Mtri/s 1000Mpxl/s 2D: Vivante GC355 300Mpxl/s,
	ADC	ADI ADV7280 analog-to-digital converter
	System Memory	On-board 4x DDR3L 533MHz Capacity: 2GB
	Storage	eMMC4.4 On-Board 8GB
		On-board 1x MicroSD Socket for external MicroSD Card
	Display	Integrated Suniverse 7" TFT-LCD Module: > Resolution: 1024 × 3(RGB) × 600 (WSVGA) > Brightness: 250 or 500 Nits in typical
	Touch Panel	Reserved w/ 4-wires analog resistive
	Light Sensor	Integrated Ambient Light sensor
Indication	System Status	1x Green LED for System active status indication
	MicroSD Status	1x Orange LED for MicroSD Access status
Internal Devices	GPS	uBlox NEO-M8N On-Board concurrent module support GPS/QZSS, GLONASS, BeiDou > Acquisition (MAX-M8Q,W/ MAX-M8C) √Cold starts: 26 s / 27 s √Aided starts: 2 s / 4 s √Reacquisition: 1.5 s / 1.5 s > Sensitivity √Tracking & Nav: -167 dBm / -164 dBm √Cold starts: -148 dBm / -147 dBm √Hot starts: -156 dBm / -156 dBm
	G-Sensor	Freescale 3-axis On-Board G-Sensor
	3G(Optional)	Integrated Gemalto PHS8 3.75G module w/: > Mini-PCIe I/F link to SoC > Frequency bands √GSM/GPRS/EDGE : 850/900/1800/1900 MHz √UMTS/HSPA+: 800/850/900/1900/2100 MHz >HSPA Performance: √DL/UL (Mb/s): 14.42 / 5.76 Mbps > Module: √ Innocomm LM_PHS8-P √ Morrihan CM8000

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	Wi-Fi(Optional)	IEEE 802.11b/g/n Wireless USB module (LR802URN2) > LAN chip : REALTEK RTL8188ETV > Compatible with 802.11n specification for 2.4GHz band, 1T1R Modes
ANT	3G(Optional)	1x SMA Socket for external 3.75G ANT
	GPS	1x SMA Socket for external GPS ANT
	Wi-Fi(Optional)	1x SMA Socket for external Wi-Fi Ant.
System I/O	MicroSD	On-Board 1x MicroSD Socket
	SIM card	On-Board 1x SIM Socket
	Networking	On-Board 1x RJ-45 Port for 10/100/1000 Ethernet.
	USB	On-Board 2x USB 2.0 Type-A Port.
	Audio	Integrated 1x 2W Mono Speaker.
	Serial Port	On-Board 1x DB-9 Male Port for RS-232 (TX/RX), RS-485 combo.
	Power Switch	On-Board Slide Switch for Power Input availability.
	Functional Keys	Integrated NPT7-QBK PCBA for: > 4x Function-Keys + 1x LCD BL On/Off
	Adjusting Switches	Integrated NPT7-QBS PCBA for: > 2x Slide switches for Brightness/Volume adjustment
	Box Connector	> Onboard Mini 26Pin Female connector w/ below IO via Power cable I, <ul style="list-style-type: none"> •√ Red wire: Car Battery •√ Black wire: Car GND •√ Yellow wire: ACC •√ White wire: Car Speed (Reserved) •√ Brown wire: Car Back (Reserved) •√ 3.5" Phone Jack: MIC-In •√ 3.5" Phone Jack: Head Phone. •√ Blue/Purple twist wire: DO •√ Color(TBD) twist wire: DI •√ Color(TBD) twist wire: CAN bus
Environment	Operating Temp.	-20~60 °C (Industrial grade Dual Core) -30~70 °C (Auto grade Quad
	Storage Temp.	-40~85 °C
	Operating Humidity	25~85%RH
	Storage Humidity	10~90%RH
	Environmental	Compliant with IEC-60068-2 /JASO D001
	Vibration	MIL-STD-810G, Method 514.6, Procedure I, Category 4, Figure 514.6C-3 Composite wheeled vehicle vibration exposure
	Shock	MIL-STD-810G, Method 516.6, Procedure I, -40g, 11ms Operating
	Certification	Compliant with CE/FCC Class A, ISO-7637-2