

Starter Kits

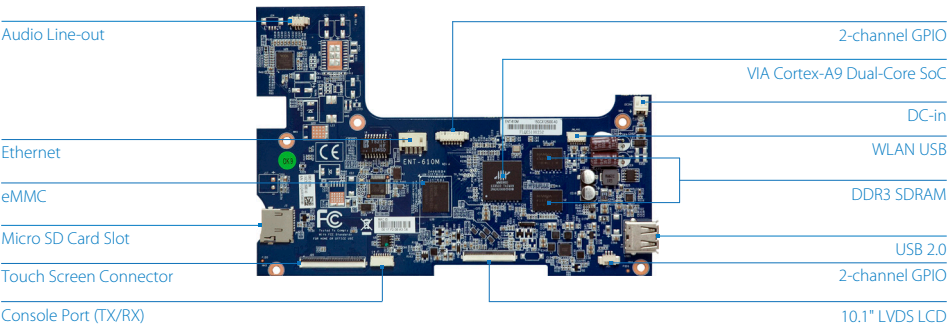
VIA
ENT-610M

All-in-one touch panel
starter kit for In-vehicle
infotainment and digital
signage applications

Features

- 1.0GHz VIA Cortex-A9 dual-core SoC
- Wide input voltage range supporting 9~36V DC-in
- Lockable connectors
- Optional Wi-Fi support
- Optional 10.1" projective capacitive touch screen support

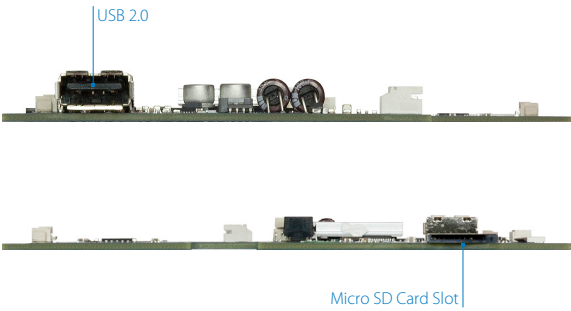
Board Placement



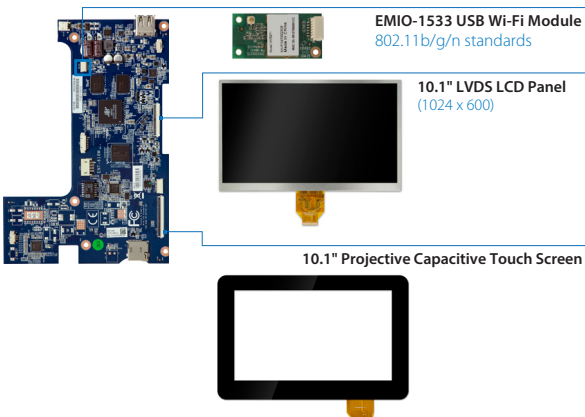
Specifications

	ENT-610M
Processor	1.0GHz VIA Cortex-A9 dual-core SoC
System Memory	512MB DDR3 SDRAM
Storage	4GB eMMC Flash memory
Boot Loader	4MB SPI Flash ROM
Graphics	Mali-400 dual processor GPU 2 integrated, independent 3D/2D graphics processing units Graphics engine supporting OpenGL® ES 2.0 hardware acceleration Supports MPEG-2, VC-1 and H.264 video decoding up to 1080p
LAN	ASIX AX88772CLF USB to 10/100Mbps Ethernet controller
Audio	VIA VT1603 SPI Audio Codec
Touch Screen	ZEITEC ZET6223WTA Projective capacitive touch screen controller
Onboard I/O	1 USB connector for optional USB Wi-Fi module 1 Single-Channel 18/24-bit LVDS panel connector 2 GPIO connectors for system buttons 1 PCAP touch screen connector 1 10/100Mbps Ethernet connector 1 Audio connector (supports Line-out) 1 DC-in connector
External I/O	1 USB 2.0 port 1 Micro SD card slot
Operating System	Android 4.2
Power Supply	9~36V DC-in
Operating Temperature	0°C ~ 45°C
Operating Humidity	0% ~ 90% (relative humidity; non-condensing)
Form Factor	17.5cm x 12.0cm (6.87" x 4.72")

External Panel I/O



Accessories



Ordering Information

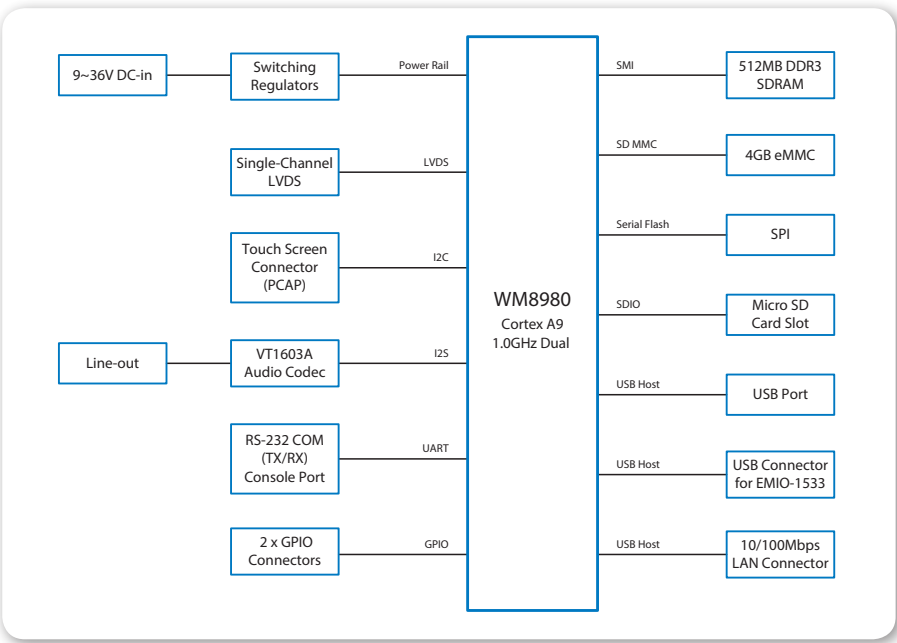
Part Number	CPU Frequency	Description
10GCX12630020	VIA Cortex-A9 SoC @ 1.0GHz	ENT-610M board with 1.0GHz VIA Cortex-A9 SoC, 4GB eMMC, 512KB SPI Flash ROM, 512MB DDR3 SDRAM, LVDS, Touch screen connector, USB 2.0, 10/100Mbps Ethernet, Micro SD card slot, 9 ~ 36V DC-in

Optional Accessories

LVDS LCD Panel	
Part Number	Description
99-47-02033A	10.1" LVDS LCD panel (1024x600) with LVDS cable
99-47-030072	10.1" Projective capacitive touch screen with touch screen cable

Wireless Modules	
Part Number	Description
EMIO-1533-00A2	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi module with assembly kit

Block Diagram



Packing List

Items
ENT-610M board
DC power cable
Ethernet/DC Power/Audio converter board
Ethernet/DC power cable
Audio cable

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[VIA Technologies:](#)

[99-47-02033A](#) [ENT-610M](#)