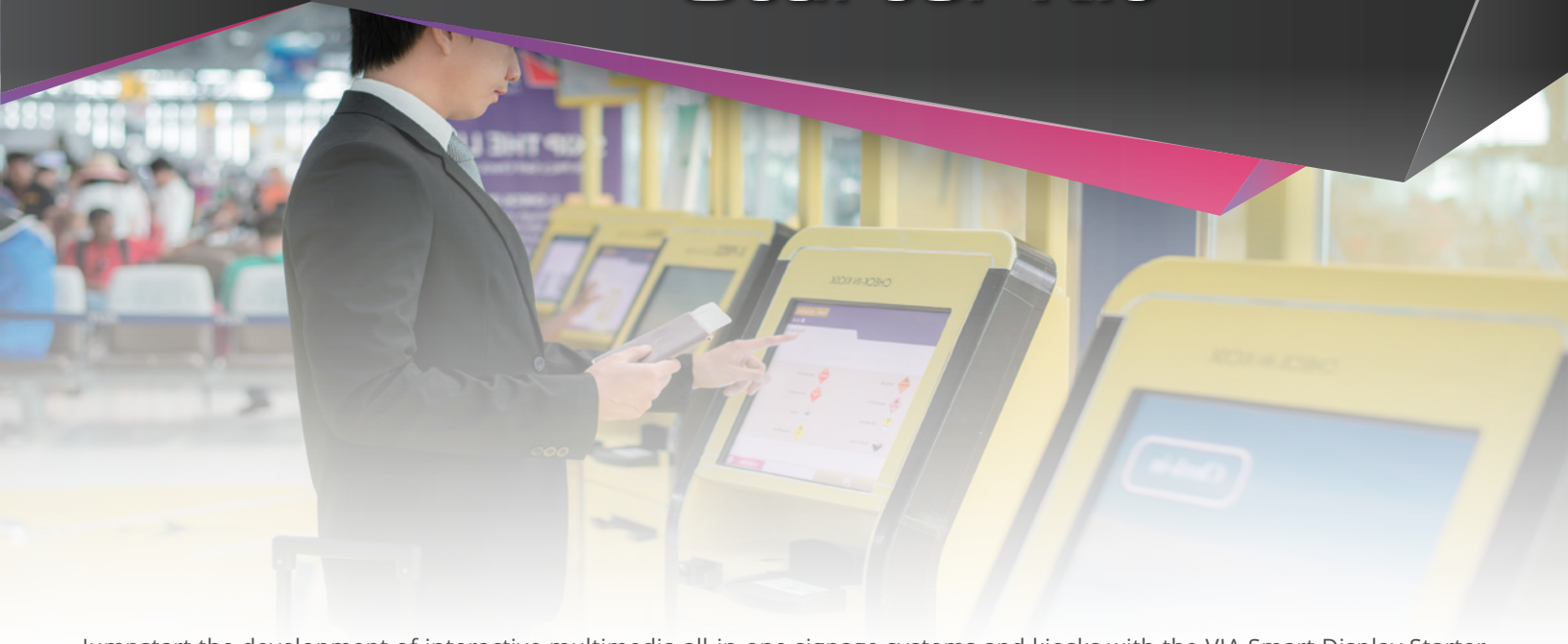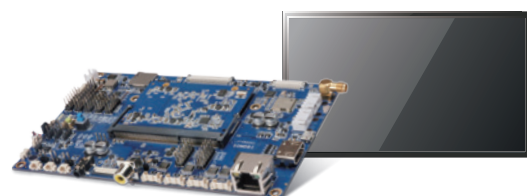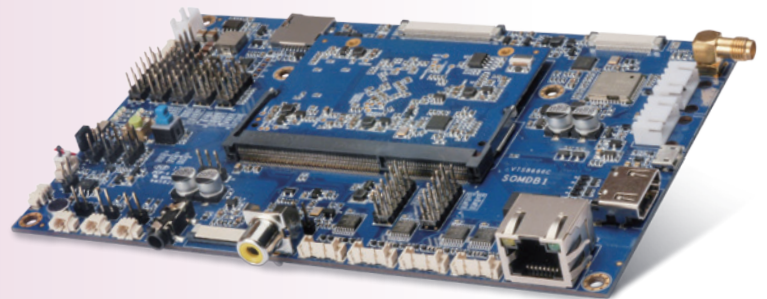# VIA Smart Display Starter Kit

Jumpstart the development of interactive multimedia all-in-one signage systems and kiosks with the VIA Smart Display Starter Kit. Combining the VIA SOM-6X50 module and carrier board with an optional 7" projective touch screen, this highly-flexible package offers extensive network connectivity and I/O expansion options for a myriad of IoT and HMI applications such as ticketing, metering, and passenger information display. With its reliable ultra-compact form factor, advanced graphics and video capabilities, and stable software framework, the VIA Smart Display Kit provides the ideal solution for enabling an exciting new generation of smart services that boost customer convenience and engagement – everywhere from the department store and airport to the parking lot and the train station.
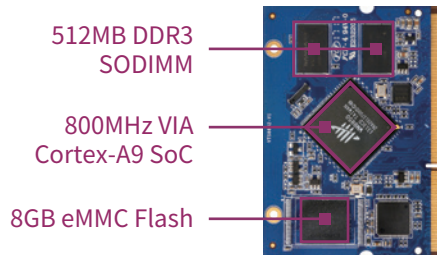
◆ VIA SOM-6X50 module powered by fanless 800MHz VIA Cortex-A9 dual-core SoC

◆ Supports HDMI and LVDS

◆ Optional VIA SOMDB1 multi-I/O carrier board with built-in Wi-Fi and Bluetooth
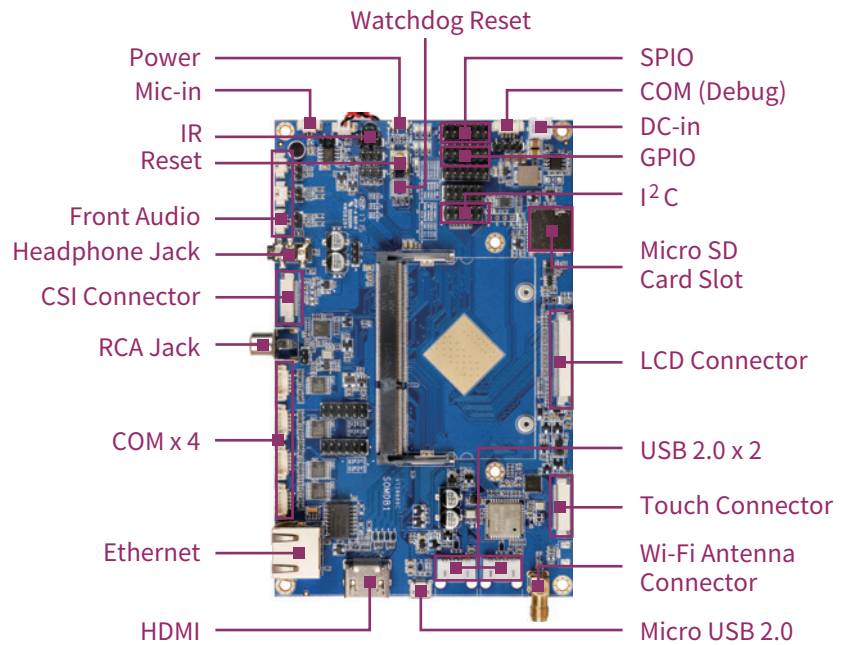
◆ Optional 7" projective touch screen

◆ Linux BSP

VIA SOM-6X50 Module

7" projective touch screen

VIA SOM-6X50 Module

- 512MB DDR3 SODIMM
- 800MHz VIA Cortex-A9 SoC
- 8GB eMMC Flash

VIA SOMDB1

Labels: Power, Mic-in, IR, Reset, Front Audio, Headphone Jack, CSI Connector, RCA Jack, COM x 4, Ethernet, HDMI, Watchdog Reset, SPIO, COM (Debug), DC-in, GPIO, I²C, Micro SD Card Slot, LCD Connector, USB 2.0 x 2, Touch Connector, Wi-Fi Antenna Connector, Micro USB 2.0

VIA Smart Display Starter Kit Specifications

Processor	800MHz VIA Cortex-A9 SoC
System Memory	512MB DDR3 SDRAM
Storage	8GB eMMC Flash Memory
Boot Loader	512KB SPI Flash ROM
Graphics	Mali-400 SP GPU 2 integrated, independent 3D/2D graphics processing units Graphics engine supporting OpenGL® ES 2.0 hardware acceleration Supports MPEG-2 and H.264 video decoding up to 1080p
LAN	Realtek RTL8201 10/100 base-TX PHY chip
Audio	Wolfsen WM8960 I2S Audio Codec
HDMI	Integrated HDMI 1.4 Transmitter
USB to UART	CP2108-B02-GM USB to UART 4-port controller
Supported I/O	1 HDMI or Single-Channel LVDS 3 I2C 1 DVO 1 SDIO 1 DVI 2 SPI 3 USB 2.0 ports 4 PWM 6 UART (5 TX/RX,RTS/CTS, 1 Debug TX/RX) 1 Line-in, Line-out, Mic-in 11 GPIO 1 Headphone-out 1 10/100Mbps Ethernet port
Operating System	Linux 3.4.5
Operating Temperature	0°C ~ 60°C
Operating Humidity	0% ~ 95% (non-condensing)
Form Factor	6.76cm x 4.8cm (2.66" x 1.89")