

## Mobile Solutions

VIA

# Mobile360 SVS

Fanless ultra-compact  
in-vehicle 360° surround view  
surveillance system



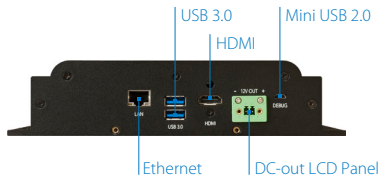
## Features

- High-performance 1.8GHz Cortex-A17 / 1.4GHz Cortex-A7 big.LITTLE octa-core SoC
- 9-36V DC-in with ACC/IGN support
- CAN Bus support
- One internal SATA bay for 2.5" SSD
- 360° real-time display with VIA Multi-Stitch technology

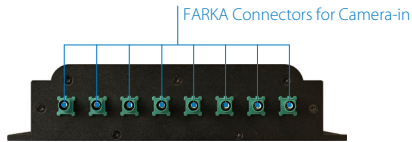
## Specifications

<b>Model Name</b>	<b>Mobile360 SVS</b>
<b>Processor</b>	1.8GHz Cortex-A17 / 1.4GHz Cortex-A7 big.LITTLE octa-core SoC
<b>System Memory</b>	2GB Mobile LPDDR3 1600MHz RAM (Package-on-Package with SoC)
<b>Storage</b>	16GB eMMC Flash memory 1 SATA connector + 2.5" SSD storage bay
<b>Boot Loader</b>	4MB SPI Flash ROM
<b>Graphics</b>	3 integrated, independent 2D/3D and video processing units Graphics engine supporting OpenGL® ES 3.1 hardware acceleration Supports MPEG-2, VC1, H.264 and H.265 video decoding up to 3840x2160 @ p30 Supports H.264 and H.265 encoding
<b>LAN</b>	ASIX AX88179
<b>Wi-Fi + Bluetooth</b>	AMPAK AP6212 Wi-Fi 802.11b/g/n + Bluetooth 4.0
<b>Audio</b>	TI TLV320 I2S audio codec
<b>HDMI</b>	Integrated HDMI 1.4b
<b>Expansion I/O</b>	1 miniPCIe slot
<b>Front Panel I/O</b>	1 HDMI 2 USB 3.0 ports 1 Mini USB 2.0 port (for debugging) 1 Gigabit Ethernet port 2-pole Pheonix DC-out jack for LCD display
<b>Left Panel I/O</b>	1 SMA connector for GPS 1 Antenna hole 1 Reset button 1 Power on LED 1 DC-in LED 4-pole Pheonix DC jack
<b>Right Panel I/O</b>	3 USB 2.0 ports (1 lockable) 2 DIO ports (4 GPI + 4 GPO) 1 9-pin D-sub connector (supports CAN Bus) 1 SD card slot 1 Micro SD card slot 2 Audio jacks: Line-out and Mic-in 2 SMA connectors for Wi-Fi and 4G/3G Module
<b>Back Panel I/O</b>	8 FARKA connectors for camera-in
<b>Power Supply</b>	9-36V DC-in with ACC/IGN
<b>Operating System</b>	Android 5.0
<b>VIA Smart ETK</b>	RTC Wake-up, Suspend, Watchdog timer, CAN Bus, GPIO
<b>Operating Temperature</b>	-20°C ~ 65°C
<b>Storage Temperature</b>	-20°C ~ 70°C
<b>Dimensions</b>	215mm(W) x 48mm(H) x 282mm(D) (8.46" x 1.99" x 11.1")
<b>Weight</b>	3.5 kg (7.7lbs)

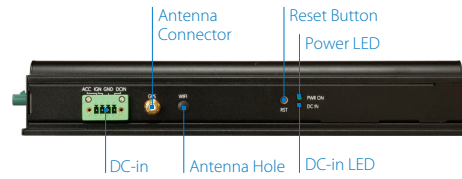
### Front Panel External I/O



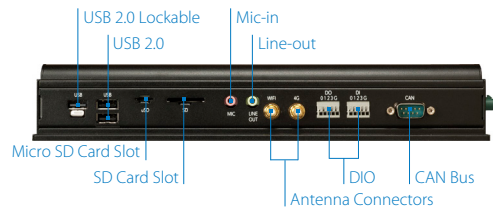
### Back Panel External I/O



### Left Panel External I/O



### Right Panel External I/O



## Ordering Information

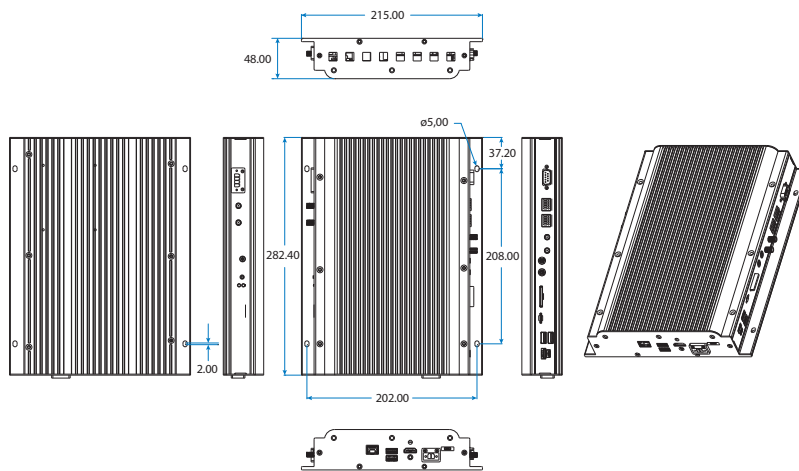
Part Number	SoC Frequency	Description
AVM-360-1E18A1	Cortex-A17/Cortex-A7 big.LITTLE octa-core SoC @ 1.8GHz/1.4GHz	Fanless mobile system with 1.8GHz Cortex-A17/1.4GHz Cortex-A7 big.LITTLE octa-core SoC, 2GB Mobile LPDDR3 1600MHz RAM, 16GB eMMC, HDMI, 2 USB 3.0, 3 USB 2.0, Mini USB 2.0 (debugging), DIO, Can Bus, 8 FARKA connectors for camera-in, Micro SD card slot, SD card slot, Gigabit Ethernet, SATA, 12V DC-out for LCD panel, 9~36V DC-in with ACC/IGN

## Optional Accessories

### Wireless Accessories

Part Number	Description
EMIO-2550-00A1	3.75G HSPA/UMTS Mobile broadband full size miniPCIe module with GPS, SIM card slot, assembly kit and antenna

## Dimensions



Unit: mm

## Packing List

Items
Mobile360 SVS system
Phoenix plug to DC jack
HDMI strap holder
GPS antenna
Wi-Fi antenna