

VIA  
Mobile360 M800

Fanless ultra-compact video telematics system with LDW, FCW and DSS AI features



Features

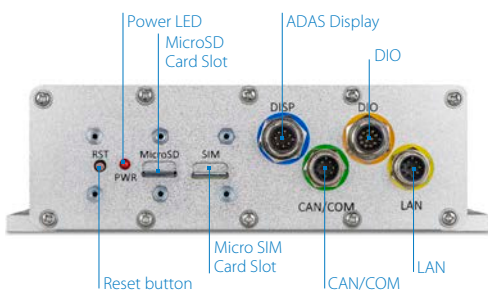
- Free 30-day VIA Fleet Cloud Management Portal demonstration period
- Wi-Fi, Bluetooth, GPS and optional 4G LTE wireless connectivity
- VIA AI technology including FCW, LDW and DSS detection
- 9~36V DC-in with ACC/IGN support
- Ruggedized design to meet IP67 water resistance standards

Specifications

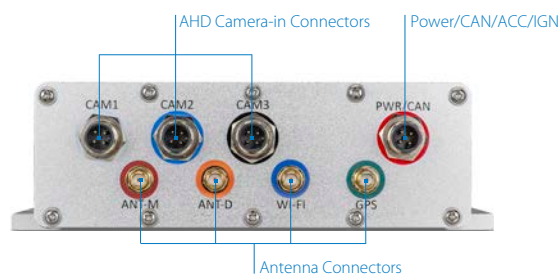
<b>Model Name</b>	<b>Mobile360 M800</b>
<b>Processor</b>	1.2GHz ARM Cortex-A7 dual-core SoC with Deep Learning Accelerator
<b>System Memory</b>	1GB DDR3 SDRAM
<b>Storage</b>	512MB SPI NAND Flash ROM 1 MicroSD Card Slot
<b>LAN</b>	10/100Mbps Ethernet Controller
<b>Wireless Connectivity</b>	1 GPS/Beidou module 1 Wi-Fi 802.11b/g/n/ac Bluetooth 5.0 module
<b>Sensor</b>	1 6-Axis IMU
<b>Expansion I/O</b>	1 MiniPCIe slot for 4G module
<b>Front Panel I/O</b>	1 M12 Display avionic connector (for ADAS Display including microphone & speaker) 1 M12 DIO avionic connector (1 TX/RX for debugging) 1 M12 CAN/COM avionic connector (supports TX/RX for RS-232) 1 M12 LAN avionic connector (10/100Mbps Ethernet) 1 Micro SIM Card Slot 1 MicroSD Card Slot (Max 512 GB) 1 Power LED 1 Reset button
<b>Back Panel I/O</b>	3 M12 AHD camera avionic connectors 1 M12 9~36V, CAN with ACC/IGN avionic connector (supports OBDII/J1939 protocols) 4 Antenna connectors (4G x 2, Wi-Fi/ Bluetooth, GPS)
<b>Power Supply</b>	9~36V DC-in with ACC/IGN
<b>Operating System</b>	Embedded Linux
<b>Operating Temperature</b>	-20°C ~ 60°C
<b>Storage Temperature</b>	-30°C ~ 70°C
<b>Operating Humidity</b>	0~95% (non-condensing)
<b>Vibration Loading During Operation</b>	ISO-16750-3 Test VII compliance
<b>Shock During Operation</b>	ISO-16750-3 Test VII compliance
<b>Mechanical Construction</b>	Aluminum alloy top cover Metal chassis housing
<b>Dimensions</b>	178mm(W) x 53.8mm(H) x 194.6mm(D) (7.01" x 2.12" x 7.66")
<b>Weight</b>	1.43kg (3.15 lbs)
<b>Ingress Protection Rating</b>	IP67
<b>Compliance</b>	CE, FCC, BSMI, NCC, TELEC, SRRC, CTA, UKCA



**Front Panel External I/O**



**Back Panel External I/O**



## Ordering Information

Part Number	SoC Frequency	Description
M360-M800-6D12A2	ARM Cortex-A7 dual-core SoC @ 1.2GHz	Fanless mobile system with 1.2GHz ARM Cortex-A7 dual-core SoC, 1GB DDR3 SDRAM, DIO, CAN/COM, Display-out (for ADAS display), 10/100Mbps Ethernet, 3 AHD camera-in, Wi-Fi, Bluetooth 5.0, GPS, Micro SIM card slot, MicroSD card slot, and 9~36V DC-in with ACC/IGN

## Optional Accessories

### Wireless Module Options

Part Number	Description
M360-LTE3-Q1APA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for APAC region
M360-LTE3-Q2CNA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for CN region
M360-LTE3-Q1EUA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for EU region
M360-LTE3-Q1JPA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for JP region
M360-LTE3-Q1USA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for USA region
M360-LTE3-Q1TLA2	4G LTE Mobile broadband full-size miniPCIe module with antenna, thermal pad, and screw pack for TH Region

### Cable Options

Part Number	Description
M360-M800-2C00A0	M12 5-pin power connector, CAN bus to OBD II connector, and ACC to bullet plug cable
M360-M800-3C00A0	M12 8-pin connector to female Ethernet connector cable
M360-MX00-2C00A0	M12 8-pin connector to 12V DC-out, CAN Bus, and RS-232 connector (supports TX/RX for RS-232)
M360-MX00-3C00A0	2M extension cable for cameras

### Sensor Options

Part Number	Description
M360-SBS-1S0030	Wireless vehicle seatbelt sensor

### Development Option

Part Number	Description
M360-M800-1D00A0	Debug board, M12 12-pin connector to debug board cable, and M12 5-pin connector to power/CAN RD testing cable

