

VIA
Mobile360 M800

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



Features

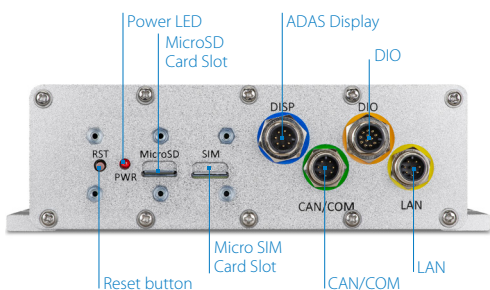
- Free 30-day VIA Fleet Cloud Management Portal demonstration period
- Wi-Fi, Bluetooth, GPS and optional 4G LTE wireless connectivity
- VIA AI technology including FCW, LDW and DMS detection
- 9~36V DC-in with ACC/IGN support
- Ruggedized design to meet IP67 water resistance standards

Specifications

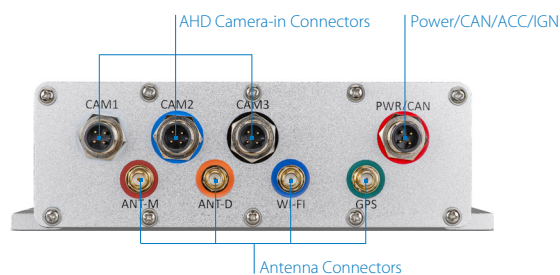
Model Name	Mobile360 M800
Processor	1.2GHz ARM Cortex-A7 dual-core SoC with Deep Learning Accelerator
System Memory	1 GB DDR3 SDRAM
Storage	512MB SPI NAND Flash ROM 1 MicroSD Card Slot
LAN	10/100Mbps Ethernet Controller
Wireless Connectivity	1 GPS/Beidou module 1 Wi-Fi 802.11b/g/n/ac Bluetooth 5.0 module
Sensor	1 6-Axis IMU
Expansion I/O	1 MiniPCIe slot for 4G module
Front Panel I/O	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
Back Panel I/O	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)
Power Supply	9~36V DC-in with ACC/IGN
Operating System	Embedded Linux
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	0~95% (non-condensing)
Vibration Loading During Operation	ISO-16750-3 Test VII compliance
Shock During Operation	ISO-16750-3 Test VII compliance
Mechanical Construction	Aluminum alloy top cover Metal chassis housing
Dimensions	178mm(W) x 53.8mm(H) x 194.6mm(D) (7.01" x 2.12" x 7.66")
Weight	1.43kg (3.15 lbs)
Ingress Protection Rating	IP67
Compliance	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-M800-6D12A0	ARM Cortex-A7 dual-core SoC @ 1.2GHz	Fanless mobile system with 1.2GHz ARM Cortex-A7 dual-core SoC, 1 GB 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, 9~36V DC-in with ACC/IGN

Optional Accessories

Display Option

Part Number	Description
M800-DISP-00A0	ADAS Display with speaker, microphone array, multi-function button, 3M tape and mounting screw pack

Wireless Module Options

Part Number	Description
M360-LTE3-Q1APA1	4G LTE Mobile broadband full-size miniPCIe module for APAC Region with antenna, thermal pad and screw pack
M360-LTE3-Q2CNA1	4G LTE Mobile broadband full-size miniPCIe module for CN Region with antenna, thermal pad and screw pack
M360-LTE3-Q1EUA1	4G LTE Mobile broadband full-size miniPCIe module for EU Region with antenna, thermal pad and screw pack
M360-LTE3-Q1JPA1	4G LTE Mobile broadband full-size miniPCIe module for JP Region with antenna, thermal pad and screw pack
M360-LTE3-Q1USA1	4G LTE Mobile broadband full-size miniPCIe module for US Region with antenna, thermal pad and screw pack

Cable Options

Part Number	Description
M360-M800-2C00A0	M12 5-pin power connector and 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)

Development Option

Part Number	Description
M360-M800-1D00A0	Debug board with M12 12-pin connector to debug board and M12 5-pin connector to ACC On/Off switch, 9~36V DC-in jack, & CAN bus connector

Calibration Pattern

Part Number	Description
99G51-030031	Vertical ADAS pattern (100cm x 40cm) for LDW/FCW calibration

Packing List

Items

Mobile360 M800 system
 FOV 60.8° 1080p ADAS AHD Camera with mounting bracket and 3M tape
 FOV 113° 1080p DMS AHD Camera with mounting bracket, 3M tape and screw pack
 9~36V, J1939 and ACC/IGN power cables
 ACC bullet plug to Standard, Micro, Low-Profile and Mini blade fuse holder cable and fuses
 Front panel cover with rubber seal, screw pack and Allen wrench
 Wi-Fi/Bluetooth and GPS antenna module
 I/O connector caps for 4G antennas, DIO, CAN/COM, LAN, and optional camera ports
 Vibration dampening strips
 32 GB MicroSD Card



Dimensions

