VIA
Mobile360 M500

Fanless ultra-compact forklift safety system with front & rear pedestrian detection and driver monitoring
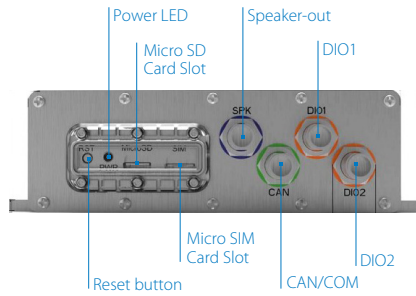
Features

- Three AHD camera-in for front & rear DMOD, and DMS

- 4G, Wi-Fi, BT, and GPS wireless connectivity

- Optional 7-inch IP67 LCD display

- 9~36V DC-in with ACC/IGN support

- Ruggedized design to meet IP67 water resistance standards
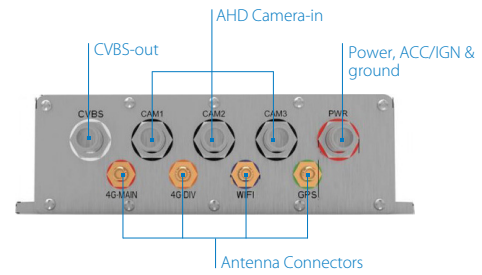
Specifications

Model Name	Mobile360 M500
Processor	1.2GHz ARM Cortex-A7 dual-core SoC with deep learning accelerator
System Memory	1GB DDR3 SDRAM
Storage	512MB SPI NAND Flash ROM 1 Micro SD Card Slot
Wireless Connectivity	1 GPS/Beidou module 1 Wi-Fi 802.11b/g/n/ac/BT 5.0 module
G-Sensor	1 6-Axis accelerometer
Expansion I/O	1 MiniPCIe slot for 4G module
Front Panel I/O	2 M12 8-pin DIO avionic connectors 1 M12 CAN avionic connector 1 M12 speaker avionic connector 1 Micro SD card slot 1 Micro SIM card slot 1 Power LED 1 Reset button
Back Panel I/O	1 M12 CVBS-out avionic connector 3 M12 AHD camera avionic connectors 1 M12 9~36V, ACC/IGN & ground avionic connector 4 Antenna connectors (4G x 2, Wi-Fi/BT, GPS)
Bottom Opening Covers	Open window with removable plate to access MiniPCIe slot for 4 G LTE module
Power Supply	9~36V DC-in with ACC/IGN
Operating System	Embdded Linux
Operating Temperature	-20℃ ~ 70℃
Storage Temperature	-30℃ ~ 70℃
Operating Humidity	0~95% (non-condensing)
Vibration Loading During Operation	ISO-16750-3 Test VII compliance
Shock During Operation	???
Mechanical Construction	???
Dimensions	178mm(W) x 52.8mm(H) x 164mm(D) (7.01" x 2.08" x 6.46")
Weight	1.56kg (3.43lbs)
Ingress Protection Rating	IP67
Compliance	CE, FCC, BSMI, NCC, Telec, SRRC, CTA

Front Panel External I/O

Power LED
Micro SD Card Slot
Speaker-out
DIO1
SPK
DIO1
SLOT1
MICROSD
SIM
DIO2
CAN
Micro SIM Card Slot
DIO2
Reset button
CAN/COM

Back Panel External I/O

CVBS-out
AHD Camera-in
Power, ACC/IGN & ground
CVBS
CAM1
CAM2
CAM3
PWR
4G-MAIN
4G-DIV
WIFI
GPS
Antenna Connectors

Ordering Information

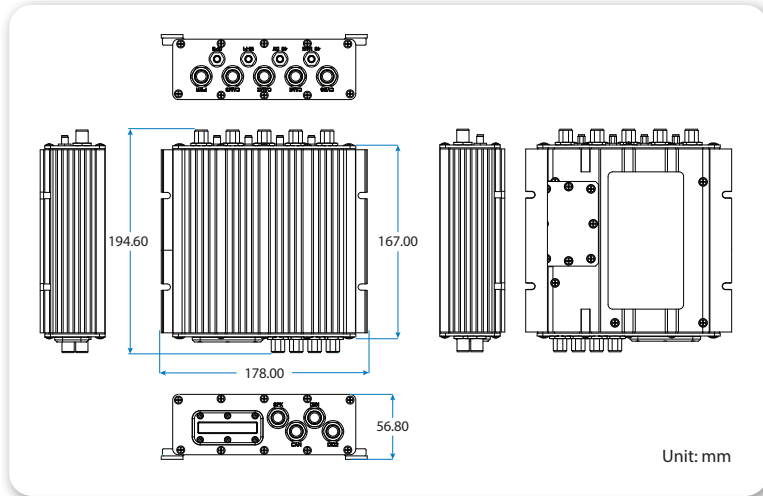| Part Number	SoC Frequency	Description
xxx-xxx-xxx	ARM Cortex-A7 dual-core SoC @ 1.2GHz	Fanless mobile system with 1.2GHz ARM Cortex-A7 dual-core SoC, 1GB DDR3 SDRAM, 2 DIO, CAN Bus, Speaker-out, CVBS-out, 3 AHD camera-in, 4G, Wi-Fi, BT 5.0, GPS, Micro SIM card slot, Micro SD card slot, 9~36V DC-in with ACC/IGN

Optional Accessories

Display Options

Part Number	Description
xxx-xxx-xxx	7" TFT LCD (1024x600) with LCD holder and mounting bracket

Wireless Modules

Part Number	Description
xxx-xxx-xxx	4G LTE Mobile broadband full-size miniPCIe module For APAC Region w/ Antenna
xxx-xxx-xxx	4G LTE Mobile broadband full-size miniPCIe module For CN Region w/ Antenna
	4G LTE Mobile broadband full-size miniPCIe module For EU Region w/ Antenna
	4G LTE Mobile broadband full-size miniPCIe module For JP Region w/ Antenna
	4G LTE Mobile broadband full-size miniPCIe module For US Region w/ Antenna

Mounting Options

Part Number	Description
xxx-xxx-xxx	Accessory description

Additional Sensor Options

Part Number	Description
xxx-xxx-xxx	Seat Belt Sensor
	Speed Sensor
	M12 DIO avionic cable for seatbelt and speed sonsor accessories

Dimensions

194.60

167.00

178.00

56.80

Unit: mm

Packing List

Items
Mobile M500 System
Mounting bracket and 4 x M5 screws
2 x IP67 DMOD FOV-190° cameras @ 720p with mounting bracket and 4 x M5 Screws
IP67 DMS FOV-68° camera @720p with mounting bracket and 2 x M5 Screws
Speaker
Wi-Fi/BT and GPS antenna module
ACC bullet plug to 2 x Standard, 2 x Micro, 2 x Low-Profile and 2 x Mini blade fuse holder cable and fuses
Power, ACC/IGN & ground cable
I/O connector covers for 4G antenna, DIO 1 & 2, CAN Bus, and CVBS connectors