

LTE CAT 6 · DATA SHEET

MDT-8M™

Rugged connected tablet for K-12 telematics applications



Overview

The MDT-8M is a rugged Android tablet for K-12 telematics applications that connects to a CalAmp Location Monitoring Unit by cable or Bluetooth. A separate cellular plan provides cloud connectivity, while the high-brightness display, extended battery life, and durable design support mobile operations.

Highlights



Connects to a CalAmp LMU by cable or Bluetooth



Separate cellular connection supports cloud communications



Seven-inch high-brightness display supports in-vehicle use



Battery provides more than 10 hours of operation



IP54 and MIL-STD-810G design resists drops and road conditions



Android platform and expandable storage support telematics applications

CELLULAR

LTE CAT 6 Bands	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B66, B71
-----------------	--

GNSS

Constellation Support	GPS, GLONASS
-----------------------	--------------

WIRELESS INTERFACES

Bluetooth	BLE 4.2
NFC / RFID	NFC: MiFare®, FeliCa HF RFID: ISO14443 A&B, ISO15693

POWER

Battery Capacity	Battery life 10 hours+ depending on usage
Battery Technology	4,000 mAh lithium-ion polymer (Li-polymer)
Battery Life	10 hours+ depending on usage

ENVIRONMENTAL

Temperature	-20° to +60°C (-4° to +140°F) operating temperature*** -30° to +70°C (-22° to +158°F) storage temperature
Humidity	0-95% RH, non-condensing
Shock & Vibration	SAE J1455 (up to 20G peak)
Environmental Rating	IP54 and MIL-STD-810G, 1.2 m/4 ft drop resistant
Altitude	Operating: 0 ~ 4,572m (15,000ft); non-operating: 0 ~ 12,192m (40,000ft)

SENSORS

Motion Sensor	3-axis accelerometer; 3-axis gyroscope
---------------	--

I/O

Serial Interface	115200 Baud 8Bit/1stop/no Par
------------------	-------------------------------

TABLET DISPLAY & HARDWARE

Display	7" 1024 x 600 IPS (4000 nits, LED backlight)
Screen Size	7 inch
Resolution	1024 x 600
Brightness	4000 nits
Operating System	Android™ 9.0
Processor	Qualcomm® Snapdragon™ SDM450 Octa core, 1.8GHz
Memory & Storage	2GB RAM / 32GB internal storage
Speaker(s)	1
Microphone(s)	2
Cameras	Rear: 8 megapixels; Front: N/A
Touch Panel	Capacitive multi-touch with optical bonding, glove support & water resistant, anti-glare coating
Expansion	MicroSD slot (up to 128GB)
Physical Interface	MicroSD slot (up to 128GB capacity) MicroSIM slot USB Type-C 2.0 (supports OTG) 18-pin pogo pin connector (charging & data transmission) Built-in mic x2 (supports noise cancellation); Built-in speaker x1
Buttons	Front: power button Soft buttons: on screen Android navigation keys

CLOUD / SOFTWARE SERVICES

Device Management	Manage, configure, and deploy OTA software updates to connected assets at scale
CalAmp Telematics Cloud	Stream telematics data into proprietary systems with flexible API integration
CalAmp App	Fleet and asset management software for tracking, monitoring, and managing vehicles, equipment, drivers, assets, and cargo.

ACCESSORIES

Accessories	Vehicle charger (5V/2A) + MicroUSB cable, 1.3m
-------------	--