

BLE 4.2 · DATA SHEET

MDT-8W™

Rugged connected tablet for K-12 fleet and school bus applications



Overview

The MDT-8W is a rugged Android tablet for K-12 telematics that connects by cable or Bluetooth to a cellular-enabled CalAmp Location Monitoring Unit. Its seven-inch display, extended battery life, durable design, and Here Comes The Bus support enable connected school bus operations.

Highlights



Connects to a cellular-enabled CalAmp LMU by cable or Bluetooth



Seven-inch, 600-nit display supports in-vehicle visibility



Battery provides more than 10 hours of operation



IP54 design resists drops and demanding road conditions



Android platform and expandable storage support telematics applications



Supports Here Comes The Bus school bus tracking

GNSS

Constellation Support GPS, GLONASS

WIRELESS INTERFACES

Bluetooth BLE 4.2

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; 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 8 Bit/1stop/no Par

TABLET DISPLAY & HARDWARE

Display 7" 1024 x 600 IPS (600 nits, 85° view angle)

Screen Size 7 inch

Resolution 1024 x 600

Brightness 600 nits, 85-degree viewing angle

Operating System Android™ 9.0

Processor Qualcomm® APQ8009 Quad core, 1.3GHz

Memory & Storage 2GB RAM / 16GB internal storage

Speaker(s) 1

Microphone(s) 2

Cameras Rear: 8 megapixels; Front: N/A

Touch Panel WEP, WPA/WPA2 PSK, 802.11x EAP security standard, WIFI Direct®

Expansion GPS (including AGPS) + GLONASS, simultaneously tracking

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, programmable button x2 (default: volume +/-)
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