

MarVib DC 807 & MarVib DC 807 ATEX

Operating System

Android™ 10.0

Mobile Computing Platform

Qualcomm® Snapdragon™ 660, Octa-core 1.95GHz Max. 2.2GHz

VGA Controller

Qualcomm® Adreno™ 512 GPU

Display

7" IPS TFT LCD HD (1280 x 720)

Anti-static protection film

display with sunlight

readable technology

Capacitive multi-touch screen

Storage & Memory

4GB LPDDR4

64GB eMMC

Device Button

Power button

3 tablet programmable buttons

Pointing Device

Touchscreen

- Capacitive multi-touch screen

Expansion Slot

Optional: 1D/2D imager barcode reader

I/O Interface

8M pixels webcam x 1

12M pixels auto focus rear camera x 1

DC in Jack x 1

USB 2.0 (Host) x 1

Micro USB 2.0 (Client) x 1

MicroSD x 1

Optional: SIM card slot x 1 (Micro-SIM, 3FF)

Communication Interface

Wi-Fi 802.11ac

Bluetooth (v5.0)

Dedicated GPS

Optional 4G LTE mobile broadband

Security Features

Optional: HF RFID/NFC combo reader

Power

AC adapter (25W, 100-240VAC, 50/60Hz) Li-ion battery (3.8V, typical 8480mAh; min. 8220mAh)

Dimension (W x D x H) & Weight

218 x 142 x 27mm

(8.58" x 5.6" x 1.08")

774g (1.71lbs)

Rugged Features

MIL-STD-810H certified

IP67 certified

Vibration & 6ft (1.8m) drop resistant vii ATEX & IECEx certified

Explosion Protection

ATEX/IECEx Zone 2/22

Ex II 3G Ex ic op is IIC T5 Gc

Ex II 3D Ex ic op is IIIB T100°C Dc



IM SMART DC 810

Operating System

Android™ 11.0

Mobile Computing Platform

Qualcomm® Snapdragon™ 660, Octa-core 1.95GHz Max. 2.26GHz

VGA Controller

Qualcomm® Adreno™ 512 GPU

Display

10.1" TFT LCD WUXGA (1920 x 1200) Protection film

800 nits display with sunlight readable technology

Capacitive multi-touch screen

Storage & Memory

4GB LPDDR4, 64GB eMMC

Optional: 6GB LPDDR4, 128GB eMMC

Device Button

Power button

4 tablet programmable buttons

Pointing Device

Touchscreen

- Capacitive multi-touch screen

Expansion Slot

Optional: 1D/2D imager barcode reader Optional: Smart card reader

Optional: HF RFID/NFC combo reader

I/O Interface

8M pixels webcam x 1

16M pixels auto focus rear camera x 1

Audio in/out combo x 1

DC in Jack x 1

USB 3.2 Gen 1 Type-C w/ DP & PD x 1

USB 2.0 (Host) x 1

MicroSD x 1

Docking connector x 1

Optional: RF antenna pass-through for GPS, WLAN and WWAN

Communication Interface

Wi-Fi 802.11 a/b/g/n/ac

Bluetooth (v5.0)

Dual Micro SIM

Dedicated GPS

Optional: 4G LTE mobile broadband

Security Features

Kensington lock

Optional: HF RFID/NFC combo reader Optional: Smart card reader

Power

AC adapter (65W, 100-240VAC, 50/60Hz) Li-ion battery(3.84V, typical 4990mAh; min. 4870mAh) x 2

LifeSupport™ battery swappable technology Optional: High capacity Li-ion battery (3.84V, typical 9980mAh; min. 9470mAh) x 2

Dimension (W x D x H) & Weight

275 x 192 x 17.9mm

(10.8" x 7.56" x 0.7")

1.04kg (2.29lbs)

Rugged Features

MIL-STD-810H certified

IP66 certified

Vibration & 6 feet (1.8m) drop resistant

Optional: ANSI/UL 121201, CSA C22.2 NO. 213



SMART GLASSES

Operating System

Android 11 (AOSP) +
WearHF™ hands-free interface +
Enterprise features

Mobile Computing Platform

2.0 GHz 8-core Qualcomm® Snapdragon™ 662 with Adreno 610 GPU - OpenGL® ES 3.2 & OpenCL™ 2.0

VGA Controller

WVGA (854X480)

Display

20° field-of-view
24-bit color LCD
0.32-inch diagonal
outdoor visible

Storage & Memory

64GB internal storage / 4GB RAM / MicroSD slot (max card supported 512GB)

Device Button

Power button (with integrated fingerprint sensor),
Programmable: action button, left button, right button

Boom Arm

Adjusts six ways for most head sizes, left or right eye compatible, display can be moved out of way when not in use

I/O Interface

1/8" / 3.5mm audio
1 USB Type-C

Image

48 MP Sensor
PDAF with LED flashlight

Video

Up to 1080p 60fps,
>6X zoom in HD,
video stabilization codecs:
VP8, VP9, H.264, H.265 HEVC

Communication Interface

Bluetooth® 5.1
Wi-Fi 802.11 a/b/g/n/ac - 2.4 GHz and 5GHz
GPS and Location:
GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS NavIC support Dual-Frequency GNSS (L1 + L5)
Qualcomm® Sensor-Assisted Positioning

Security Features

Qualcomm® Trusted Execution Environment
Crypto Engine
Secure Boot

Power

2,600 mAh / 10.0 Wh Li-polymer
rechargeable
hot-swappable

Dimension (W x D x H) & Weight

9.5oz/270g

Rugged Features

IP66
MIL-STD-810H
6.5 feet / 2-meter drop

Included Applications

Document Navigator, Camera with Barcode Reader, Audio Recorder, Video Recorder, Webpage Viewer, Cloud Sync, Media Player, Calculator, Pedometer, Timer

Languages & Dialects Supported

Chinese (Cantonese, Mandarin-Simplified and Traditional), Czech, Dutch, English (American, Australian, British), French, German, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Thai

Sign-in Options

Companion App, Voice Keyboard with secure mode
IMU - Head Movement Tracking
3 IMUs (including 3-axis accelerometers, gyroscopes, eCompass)

Audio

4 digital microphones with active noise cancellation Accurate voice recognition in noise up to 100 dBA
Speaker:
Internal 94 dBA loudspeaker



SMART GLASSES ATEX

Operating System

Android 8 (AOSP) +
WearHF™ hands-free interface

Mobile Computing Platform

2.0 GHz 8-core Qualcomm®
Snapdragon™ 625 with Adreno 506 GPU - OpenGL ES 3.1 & OpenCL 2.0

VGA Controller

WVGA (854x480)

Display

20° field-of-view
1 meter fixed focus
24-bit color LCD
0.33 inch diagonal
outdoor visible

Storage & Memory

16 GB Internal Storage / 2 GB RAM / MicroSD slot (max card supported 64 GB)

Device Button

Power key
application specific action key

Boom Arm

Adjusts six ways for all head sizes, left or right eye compatible, display flips out of way when not in use

I/O Interface

3.5mm audio
1 micro-USB for data and charging

Image

16 MP 4-image stabilized
PDAF with LED Flashlight

Video

Up to 1080p @30fps.
Codecs: VP8, VP9 and hardware encoding support for H.264, H.265 HEVC

Communication Interface

Bluetooth:
BT 4.1 LE (Low Energy)
Wi-Fi:
802.11 a/b/g/n/ac - 2.4GHz and 5GHz
GPS and Location:
GPS, GLONASS, A-GPS

Power

Capacity 3400 mAh Li-Ion
non-removable
rechargeable charging cable contains an inline "safety box" Battery Life:
Full shift (8-10 hrs) with typical use

Dimension (W x D x H) & Weight

430 g

Rugged Features

Intrinsically safe
2 meter drop
IP66
MIL-STD-810G

Explosion Protection

ATEX:
II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T135°C Db IP6X
IECEx:
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X
NEC500:
Class I, Division 1, Groups A,B,C,D T4
Class II & III, Division 1, Groups E,F,G T4

Included Applications

Document Navigator, Camera with Barcode Reader, Video Recorder, Media Player

Languages & Dialects Supported

English, Spanish, French, German, Italian, Portuguese, Russian, Mandarin Chinese, Japanese, Korean, Thai, Polish

IMU - Head Movement Tracking

9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization

Audio

4 digital microphones with active noise cancellation
Accurate voice recognition even in 95 dBA of typical industrial noise
Speaker: Internal 91 dB loudspeaker



IM - 100B ATEX

Accelerometer

Number of Axis: Tri-axial
Frequency Range: DC to 6 kHz
Sampling Rate: 26 kHz
Dynamic Range: ± 16 g
Resolution: 16 bit
Noise Density: 60 $\mu\text{g}/\text{Hz}$
Memory: 1.3M Sample

Magnetometer

Number of Axis: Tri-axial
Magnetic Flux Density Sensing: ± 160 mT
Flux Resolution: 65 μT

Thermometer

Sensitivity: $\pm 0.5^\circ$
Sensing Range: -40°C to $+125^\circ\text{C}$

Mechanical

Size (D*H): 45 mm * 112 mm
Weight: 370 gr
IP Rating: IP67
Mounting Type: Stud Mounting (1/4" 28G)
Mounting Pad Size (D*H): 27 mm * 10 mm
Altitude (Operating - Storage): 3000 m - 12000 m
Storage Range: -40°C to $+80^\circ\text{C}$
Operating Range: -40°C to $+80^\circ\text{C}$

Power

Battery Type: 9000 Mah 3.6 V Li-SOC12
Battery Life: Up to 4 Years
Charge: Non-Rechargeable

WiFi

Type: 802.11 b/g/n
Frequency: Band 2.4 GHz
Security: WEP/WPA/WPA2
Antenna: Internal antenna

LoRa

Working Frequency: 868MHz
Transmitting Power: 20 dBm
Receiving Sensitivity: -146 dBm
Air Data Rate: 19.2kbps



IM - 100B

Accelerometer

Number of Axis: Tri-axial
Frequency Range: DC to 6 kHz
Sampling Rate: 26 kHz
Dynamic Range: ± 16 g
Resolution: 16 bit
Noise Density: 60 $\mu\text{g}/\text{Hz}$
Memory: 1.3M Sample

Magnetometer

Number of Axis: Tri-axial
Magnetic Flux Density Sensing: ± 160 mT
Flux Resolution: 65 μT

Thermometer

Sensitivity: $\pm 0.5^\circ$
Sensing Range: -40°C to $+125^\circ\text{C}$

Mechanical

Size (D*H): 30.5 mm * 85 mm
Weight: 93 gr
IP Rating: IP67
Mounting Type: Stud Mounting (1/4" 28G)
Mounting Pad Size (D*H): 27 mm * 10 mm
Altitude (Operating - Storage): 3000 m - 12000 m
Storage Range: -40°C to $+80^\circ\text{C}$
Operating Range: -40°C to $+80^\circ\text{C}$

Power

Battery Type: 1500 Mah LiFePO4
Battery Life: Up to 2 Years
Charge: 5V USB & Solar Cell Input

Bluetooth

Type: Low Energy 5.1
Realtime Data Plot: Up to 800 Hz Sampling Rate
Data rate with BLE: 2.600-13.000 bytes/sec (Depends on Smartphone)
Range (during a session): 50 m, line-of-sight
Frequency: 2400 MHz

