StaneO

More than 10 years of experience
for your measurements

D3BB-MOB – D6BB-MOB – D9-MOB

Portable station
Broad-band 3/6/9 channel portable digitizers

www.staneo.fr

D3BB-MOB – D6BB-MOB – D9-MOB

Broad-band 3/6/9 channel portable digitizers

D3BB-MOB, D6BB-MOB, and D9-MOB are 3/6/9 channel portable seismic digitizers designed by **StaneO** for broadband seismic data recording in harsh environments.

D3BB-MOB, D6BB-MOB, and D9-MOB typically fulfill the mobile array requirements. The front panel display gives the user a comprehensive state of health, including seismic signal and mass position.

The digitizer is fully operational within less than 90 seconds after power connection.

Key features: truly low power, high resolution, easy installation, smart-phone-compatible over Bluetooth.

Applications: mobile seismic array, site and ambient noise measurements, micro-seismic monitoring, long term installation in harsh environments...

SEISMIC INPUTS

Channels: 3 (D3BB-MOB) 6 (D6BB-MOB), or 9 (D9-MOB)
Synchronous: yes
Conversion: sigma-delta 32bits
Full scale: 40Vpp at gain 1
Impedance: 16/32kΩ
Hardware gain: 1 to 64
LSB: 9.31nV at gain 1
Dynamic range: 146dB/133dB at 100sps[1]
Sampling rates: 1sps to 2000sps

SENSOR SUPPORT

Most sensors predefined, control lines include: mass center, calibration signal, calibration enable, lock, unlock, power
Active high/low control lines: yes
Control lines level: user defined
Digital interface: RS232
Mass position: 3 channels, +/-10V

TIMING

GPS: 12 channels
Time accuracy: <1µs, <100µs
Long term drift: 0 (GPS-locked)
Power management: continuous/duty cycle

HEALTH STATE

Internal monitoring: power supplies, internal temperature

DATA STORAGE & RETRIEVAL

Format: MiniSEED 32bits, steim-1
Internal storage: 16GB NAND flash
Data management: ECC (BCH), true wear levelling
Retrieval: integrated FDSNWS SEEDLink server version 3
External storage: USB-storage (vfat/ext2)

COMMUNICATION

Interfaces: Ethernet, serial, USB-net, Bluetooth, WiFi, SMS, GSM/GPRS, SIGFOX, MODBUS
Quick setup: HTTP (integrated web server)
Remote monitoring: SNMP
Options: GSM/GPRS, SIGFOX

MECHANICS

Enclosure: Aluminium, IP68
Dimensions: 23x6x20 cm
Connectors: UTS1419 and USB A/B
Weight: 2kg (including GPS)

HUMAN INTERFACE

LED panel: 32 LEDs full diagnostic, including signal display for each channel, battery level, storage state and filling rate, mass position ...
Control: push button wake up LED panel, wake up GPS and wireless modem/ Bluetooth or WiFi interface, send centering command to the BB sensor, reset to factory default

POWER CONSUMPTION

670mW

Conditions: average over 24h, 6 channels at 100sps, continuous recording on internal flash and external 32GB flash disk, automatic GPS duty cycles (100µs accuracy), one SMS per day.

[1]full scale sine wave above shorted input

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