

*O*<sub>pen</sub>

*S*<sub>eismological</sub>

*I*<sub>ntegrated</sub>

*R*<sub>ecorder for</sub>

*I*<sub>mproved</sub>

*S*<sub>urvey</sub>



### OSIRIS Features :

- Portable seismological recorder
- 24 bits digitiser
- Up to 24 channels @  $f_s = 2 \text{ KHz}$
- Embedded Ethernet, WiFi, and Serial communication.
- Removable mass storage (2 PCMCIA slots).
- Very low power consumption.
- Embedded Linux and open source software.
- IP67

### OSIRIS Applications :

- Seismological & seismic recording
- Earthquake monitoring
- Dense array deployment with radio ( WiFi ) monitoring
- ....

# OSIRIS

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# OSIRIS SPECIFICATIONS

## ARCHITECTURE :

- Embedded Linux System Open Source
- ARM CS89712 supervisory system
- DSP56311 full acquisition and filtering system
- 2 removable PCMCIA devices

## MECHANICAL :

- Size (L x l x h) • 270mm x 250mm x 170mm
- Weight • 3kg
- IP67
- High Shock Resistance (ABS)

## I/O CONNECTORS :

- (HE301 , MIL-C 26482G)
- Seismometer
- Power
- Ethernet
- RS232
- Radio Antenna
- External GPS

## A/D CONVERTER :

- Type •  $\Delta$ - $\Sigma$  modulation ,  
24-bit format
- Channels • 3, 6, 9, up to 24 Channels
- Gain Selection • up to 5 independant  
selections (software adjusted)
- Input Full Scale • 10 Vpp @ x1
- Sample Frequency • 2KHz to 1Hz
- Noise • 4.5bit @ 2KHz  
0.5bit @ 1Hz

## TIME :

- Datation • 1 $\mu$ s
- Stability • 1ppm
- Main clock backup
- External GPS receiver (RS232)

## POWER :

- Input Voltage • 9 to 28 V DC
- Operating power • ~1W (3-ch @250 Hz,  
GPS 3 sync / hr)  
- no communication

## COMMUNICATION :

- TCP/IP • 10 Base-T
- Serial PPP • RS232
- TCP/IP • 802.11b (WiFi®)

## DISPLAY LED'S :

- Media activity
- Seismo activity
- GPS Infos
- Ethernet Link
- WiFi®

## RECORDING MODE :

- Continuous
- External Trigger
- STA/LTA Trigger
- Time Trigger

## STORAGE CAPACITY :

- On-System FLASH (16MB)
- Up to 2 PCMCIA 5Go HDD

## RECORDING FORMAT :

- TITAN.2 format compatible ascendant

## SOFTWARES :

- Data conversion TITAN to MINISEED,  
SAC,AH, SEG Y, ASCII...
- Internal Linux software development tools
- OCS : OSIRIS Configuration Software
- ONC : OSIRIS Network Controller

## ALSO AVAILABLE :

- Linux Sources
- Schématiques
- GPS L1phase recording for post processing.
- PCMCIA HDD Up to 5 Go
- PCMCIA WiFi® Module

# OSIRIS

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