pALERT+

Specifications

ADC	:	**4 channels @24-bit**
Algorithms	:	**Pd, PGA, STA/LTA**
Data Format	:	**CSV or miniSEED**
Display	:	**2 lines x 20 characters**
Dynamic Range	:	**> 100 db**
Frequency Response	:	**0.05~40 Hz,** with 10Hz / 20Hz / 40Hz digital filters
Measuring Method	:	**Built-in 3-axis MEMS accelerometer,** optional 4th-axis vertical geophone, (built-in or externally connected)
Measuring Range	:	**±2g or ±4g (customized)**
RTC Accuracy	:	**±60 sec/year,** GPS model available upon request
Sampling Rate	:	**50, 100, 200, 400Hz**
Storage	:	**16GB (expandable)**
Time Synchronization	:	**NTP or GPS (Optional)**

Introduction

pALERT+ is a tri-axial MEMS accelerometer with a dynamic range more than 100dB that can be used for various applications such as EEWS and RSHD.

pALERT+ is also a stand-alone system with build-in triggered algorithms that does not require other datalogger for operation. It can also stream out data to other data centers or cloud servers as well.

Environment

Power Consumption	:	**2W@12VDC**
Power Supply	:	**10-30VDC**
Waterproof	:	**IP67**
Weight	:	**1.8 kg**
Working Temperature	:	**-20 ~ +70°C**
Dimension (WxLxH)	:	**205 x 160 x 80 mm**

Applications

EEWS   (Earthquake Early Warning System)

Industrial disaster prevention

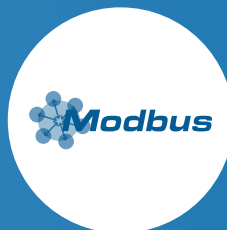**RSHD**   (Rapid Structural Health Diagnostic)

Features

Built-in Back Up Power	Built-in Web GUI	Mudbus Protocol	Support Real-time Outputs of Local Intensity Scales	Time Synchronization via NTP