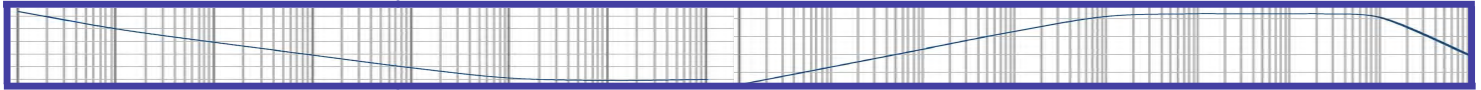


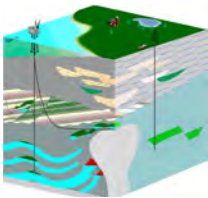
# KMS-831 interface module

A 32-bit A/D acquisition module



## Product description

- Low noise acquisition module for high resolution applications
- 3 Channel module, 32-bit simultaneously sampling, daisy chainable
- Sampling rate up to 4 KHz
- Direct connection with KMS-820 acquisition unit with one cable
- Expandable in 3 channels increment
- Can be used in land, marine or borehole housing
- Direct connection with LEMI coils, such as LEMI-120 and LEMI-118. Can also be used for electric field measurements and any other geophysical sensor.
- Digital interface with acquisition system for easy compatibility
- GPS synchronized through KMS-820
- Enable MT station capability for simultaneously sampling over both low and high frequencies.
- Allows multi-channel CSEM acquisition
- LOW COST channel expansion of array EM system



## Product applications

KMS-831 can be used for acquisition with KMS-820 array acquisition system; a major advantage is **TRUE simultaneous** sampling over low and high frequency without need to change coils and no loss of time series data or acquisition time.

2 electrode



3 high frequency coils (LEMI-118)  
(1 Hz ~ 70 KHz)



KMS-820 Acquisition



32-bit A/D interface module KMS-831-3



3 low frequency coils (LEMI-1:  
(10000 S ~ 1 KHz)

**Figure 1: Application example of KMS-831 for simultaneous sampling for low and high signal band in MT survey**

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## Product specifications

<b>Frequency bandwidth</b>	DC ~ 2 KHz
<b>Sampling rate</b>	Up to 4 KHz customizable selectable
<b>A/D resolution</b>	32 bit
<b>Input range</b>	-2.5 V ~ + 2.5 V
<b>Input impedance</b>	> 1 Mohm
<b>Communication protocol</b>	SPI interface
<b>Supply voltage</b>	+5V DC
<b>Power consumption</b>	Typical 1 W
<b>Operating temperature range</b>	-25° to 85° C
<b>Packaging</b>	Ruggedized PVC box
<b>Length</b>	12 inch
<b>Width</b>	7 inch
<b>Height</b>	3 inch

