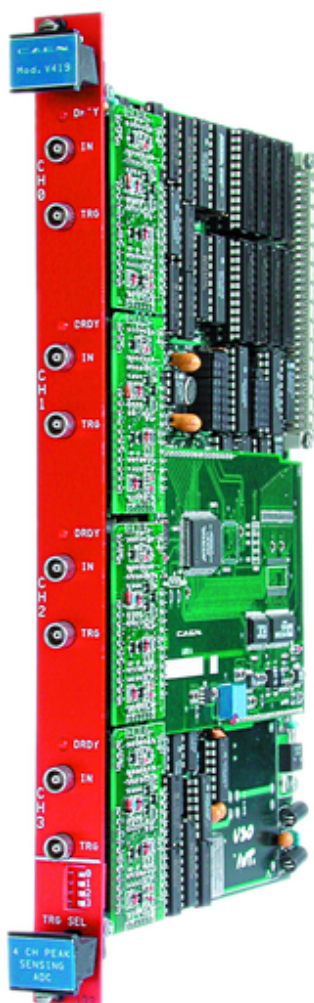
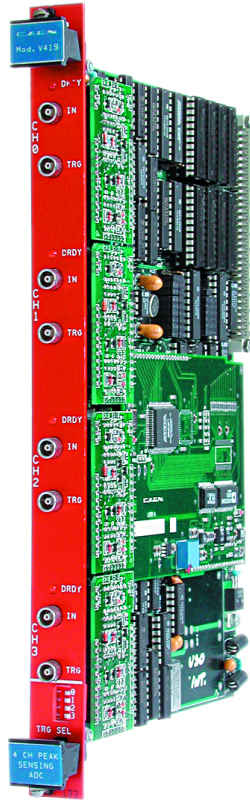


# V419

## 4 Channel Peak Sensing ADC



## Features



- 0 ÷ 4 V input range
- Full 12 bit resolution
- 1 mV LSB
- 1.2  $\mu$ s / ch. conversion time
- $\pm 0.5$  counts integral non linearity
- $\pm 1\%$  differential non linearity
- Gate width (Rise Time Protection) programmable from 2 to 32  $\mu$ s

## Description

The **Mod. V419** is a 1-unit wide VME 6U module which houses 4 channels of linear gate and stretcher with a multiplexed 12 bit ADC.

The input signals can be square waves, or semi-gaussian positive pulses with a rise time greater than 0.5  $\mu$ s; it can also convert constant or very slow signals working in sampling mode. A sliding scale technique is featured to improve the differential non linearity. The unit has an A24, D16 VME interface.

*(INFN Milano-LNL design)*

## Technical Specifications

### Packaging

6U-high, 1U-wide VME module

### Inputs

4 channels, DC coupling, positive polarity, 1 kOhm impedance

### Input signal shape

square wave or semigaussian pulses with rise time >500 ns

### Full scale

4 V

### Resolution

12 bit

### RTP

selectable from 2  $\mu$ s to 32  $\mu$ s

### Conversion time

1.2  $\mu$ s/ch.

### Trigger inputs

TTL level

### Dead time

RTP + 500 ns

### Integral non linearity

0.5 LSB

### Differential non linearity

$\pm 1\%$

### VME interface

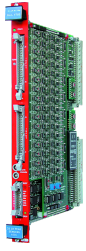
A24, D16

### nan

nan

## Related Products

### V785



32 Channel Multievent Peak Sensing ADC

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### V1741



64 Ch Peak Sensing ADC

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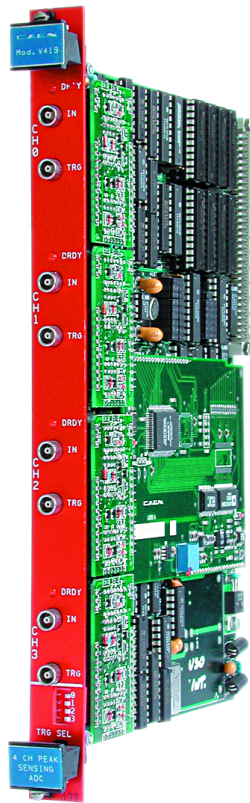
### V1785



8 Ch Dual Range Multievent Peak Sensing ADC

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# Gallery



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