

# VME-IF-SM-x-y

## VME IF switch matrix

x = N inputs (4 by default)  
y = N outputs (8 by default)



### Ordering information

■ Model references

SM 01004724A



IN-SNEC

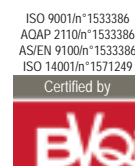
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### Applications

- Satellite communications
- Base stations
- Modems

### Main features

- The VME IF switch matrix is a 6U VME board that fits in a single slot.
- It can route a RF source among 8 inputs towards each of the 4 outputs without any limitation.
- It embeds a HC12 micro-controller and allows various control and command modes such as synchronous or asynchronous serial links, VME bus and also Ethernet 10BaseT as an option.

## Technical characteristics

### Analog inputs

- ◆ RF input quantity 8
- ◆ Output quantity 4
- ◆ Frequency 1 to 200 MHz
- ◆ Gain 0 dB ± 2 dB
- ◆ Crosstalk, isolation > 65 dB
- ◆ Noise figure < 15 dB
- ◆ Compression @ 1 dB ≥ 10 dBm
- ◆ Temperature range -20 °C, +70°C
- ◆ Δ TPG max between channels ≤ 1ns
- ◆ Input return loss 1.5

### Communications

- ◆ Ethernet 10 Base T TCP/IP protocol  
mono port, mono client (option)
- ◆ RS485
- ◆ Synchronous serial link
- ◆ VME software configurable address

### Mechanical characteristics

- ◆ Dimensions 9"2 x 6"3 x 3/4"  
(233 x 160 x 19 mm)  
double Europe 6U, 1 slot

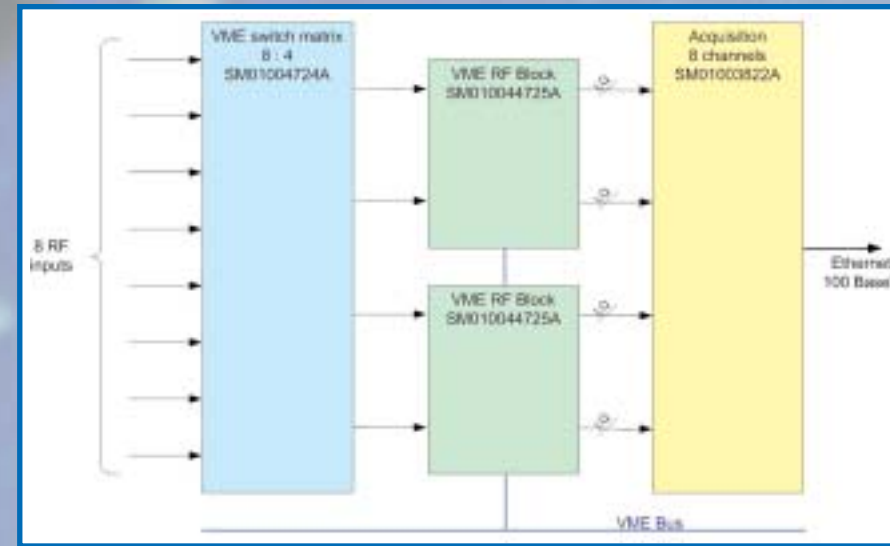
### Interfaces

- ◆ RF inputs 8 SMA female
- ◆ Outputs 4 SMA female
- ◆ RS485 synchronous serial link  
Connector 12 pins male
- ◆ Connecteurs VME P1
- ◆ Ethernet RJ45 (option)

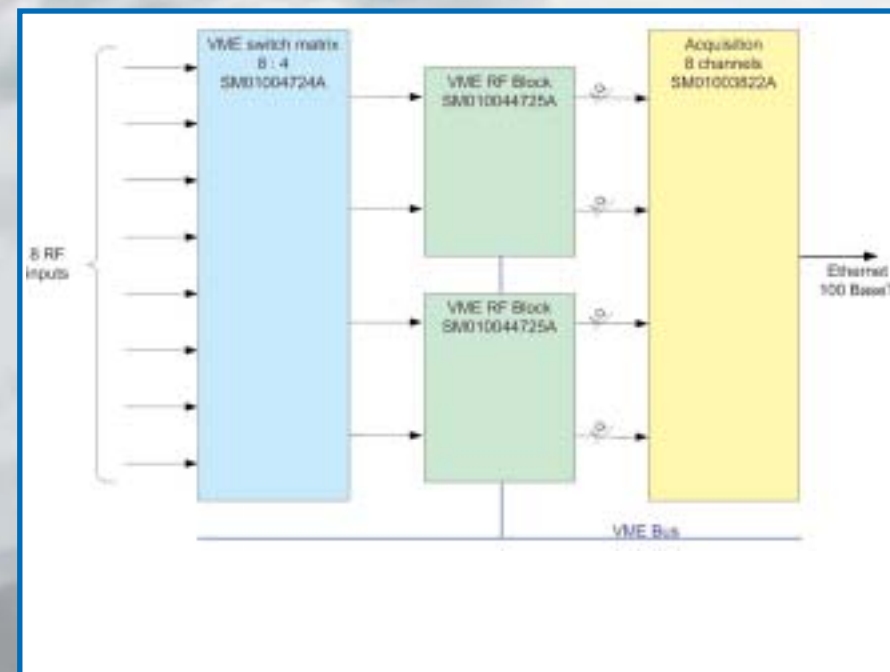
### Software

- ◆ C source code drivers

## Block diagrams



4 narrow band channels on 8 RF inputs



4 wide band channels among 8

