

# EAGLE SOLUTION

MULTICHANNEL DATA ACQUISITION & PRE-PROCESSING

**TECHWAY**  
SIGNAL VISION SYSTEM

Analog to 10 GbEth converter

## APPLICATIONS

- Multi-sensor and high-bandwidth as :
  - Passive RADAR
  - Beamforming
  - Seismology
  - MIMO
  - etc.

## BENEFITS

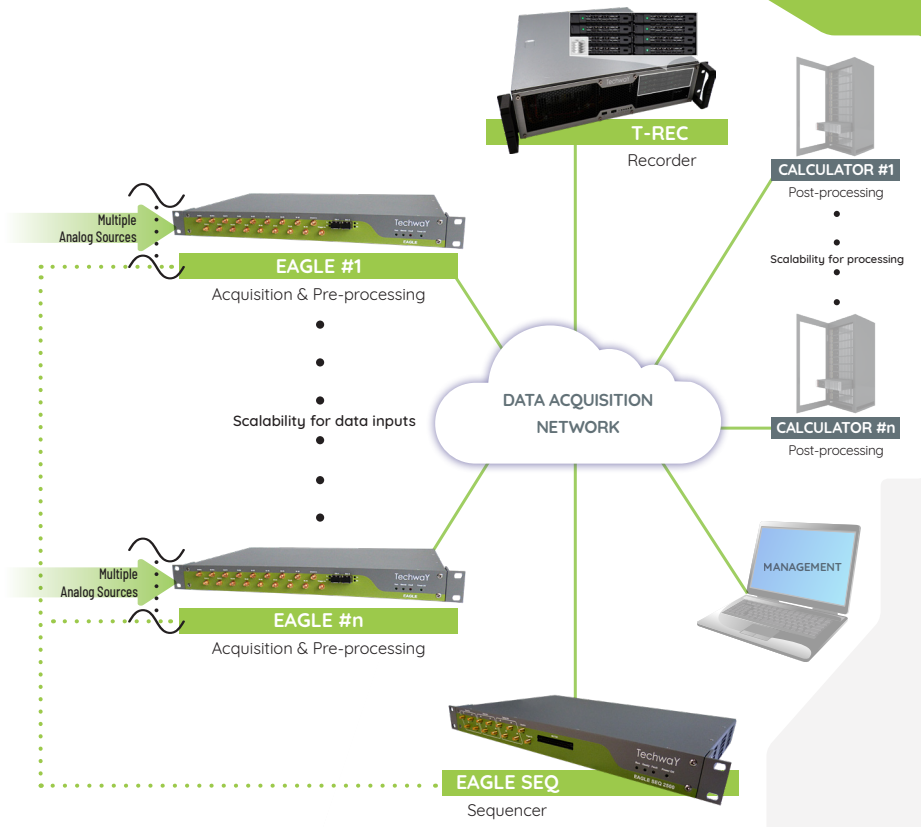
- Ready-to-use : Embedded processing
- Easy-to-use : Web or SNMP server
- No VHDL code required
- Low cost per analog channel
- Data offload over 1 or 10 GbEth
- All-inclusive solution
- Scalable architecture

## KEY FEATURES

- Up to 16 input channels
- 125 MSPS or 2,5 GSPS sampling frequency
- Embedded DDC & windowing
- Programmable FPGA processing
- Bypass mode (full bandwidth)
- Data output :
  - 1 or 10 Gb Ethernet
- Power supply :
  - 24 VDC to 50 VDC, 35W max
- Enclosure :
  - 1U/19" 280mm depth, <4kg

 INDUSTRY

 DEFENCE



EAGLE, TECHWAY's acquisition solutions, extract acquisition stages of real-time calculators to share it with the communication network.

EAGLE solutions are ready-to-use and user-friendly. Data processing algorithms are included and configurables thanks to an intuitive Web interface.

TECHWAY offers you an easy access to complex technologies (FPGA, high-speed ADC, etc.). Our mission is to reduce costs, risks and development time of your project with pre-integrated solutions.

Scalability of EAGLE solution allows an evolution of your systems and eases the integration thanks to 10 Gb Ethernet standardized communication interfaces.

Our EAGLE solutions are used in major projects as European Space Agency projects or to equip new passive RADAR.

Information and photos subject to change without notice

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## ACQUISITION FEATURES

- 125 MSPS or 2,5 GSPS acquisition bandwidth
- Real-time processing
- Cmd/Ctrl : Web or SNMP
- CE and FCC marking

## SEQUENCING FEATURES

- Minimal clock jitter
- Up to 4 acquisition boxes
- Cmd/Ctrl : Web or SNMP
- AWG

## RECORDING FEATURES

- 1 or 2 channels 10 GbEth
- Up to 32 TB of storage
- Cmd/Ctrl : Web or SNMP
- Frequency and time display

## ORDERING INFORMATION

### ACQUISITION

- **EAGLE\_16-125 :**  
16 channels, 16 bits @ 125 MSPS
- **EAGLE\_1-2500 :**  
1 channel, 12 bits @ 2,5 GSPS

### SEQUENCING

- **EAGLE\_Sync-125 :**  
Synchronize up to 8 EAGLE\_16-125
- **EAGLE\_Seq-2500 :**  
Synchronize up to 4 EAGLE\_1-2500

### RECORDING

- **T-REC\_EAGLE-XX :**  
2 Gb/s write rate  
*XX : 2 to 32 TB storage capacity*

## ACQUISITION & PRE-PROCESSING



A ready-to-use and pre-configured equipment that offers up to 16 channels and 2 acquisition bands : narrow band (125 MSPS) and wide band (2,5 GSPS).

Import directly your processing parameter through our intuitive GUI for a very quick set-up.

No firmware development is needed, the solution is ready-to-use.

## SEQUENCING & SYNCHRONIZATION



A fully integrated product to control and dispatch clock and trigger over up to 4 acquisition boxes.

Patterns and triggers are configurable through an user-friendly GUI. EAGLE-Seq guarantees a sample-accurate synchronization.

## RECORDING



Turnkey solution to record at up to 2 Gb/s data transmitted from EAGLE acquisition boxes.

Embedded GUI allows you to configure the recorder according to your needs. Storage signal preview available on Web server.

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