EAGLE Acquisition

NARROW BAND

TECHWAY
SIGNAL VISION SYSTEM

Analog to 10 GbEth converter

APPLICATIONS

- Passive RADAR
- Phase-array RADAR
- Over-the-horizon RADAR
- Seismology
- Transmission
- Scientific research :
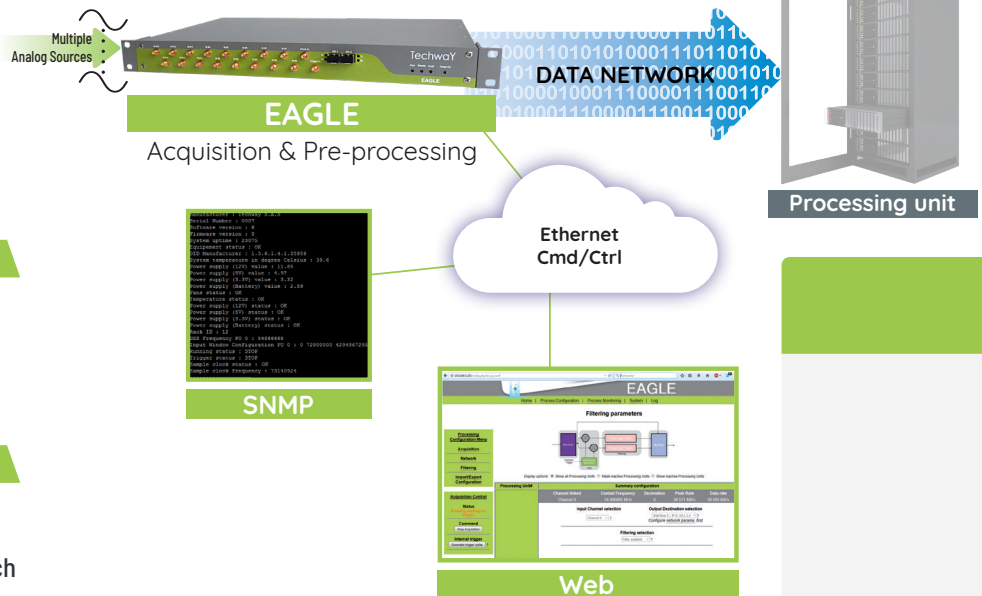 - Multi-sensor systems

BENEFITS

- Pre-configured FPGA processing
- Real-time pre-processing
- Cmd/Ctrl : Web & SNMP

KEY FEATURES

- Up to 16 input channels
- Up to 125 MSPS sampling frequency
- Embedded DDC & windowing for each channel
- FPGA processing
- Bypass mode (full bandwidth)
- Data output : 10 GbEth (optical)
- Power supply : 24 VDC to 50 VDC, 35W max
- Enclosure : 1U/19" 280mm depth, <4kg

INDUSTRY

DEFENCE

Multiple Analog Sources

EAGLE
Acquisition & Pre-processing

DATA NETWORK

Processing unit

Ethernet
Cmd/Ctrl

SNMP

EAGLE

Filtering parameters

Web

EAGLE is an unique solution which allows to manage multi-channels acquisition and to offload data pre-processing stages from real-time calculators. EAGLE shares the processed data with the communication network making this acquisition solution highly-scalable.

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

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

TechwaY

Narrow band acquisition - EAGLE 125

Up to 16 channels - 16 bits @ 125 MSPS

Embedded pre-processing allows you to extract the information you need. All channels are sample-accurate and all data are send on standard 10 Gigabit Ethernet channels.

CE FC

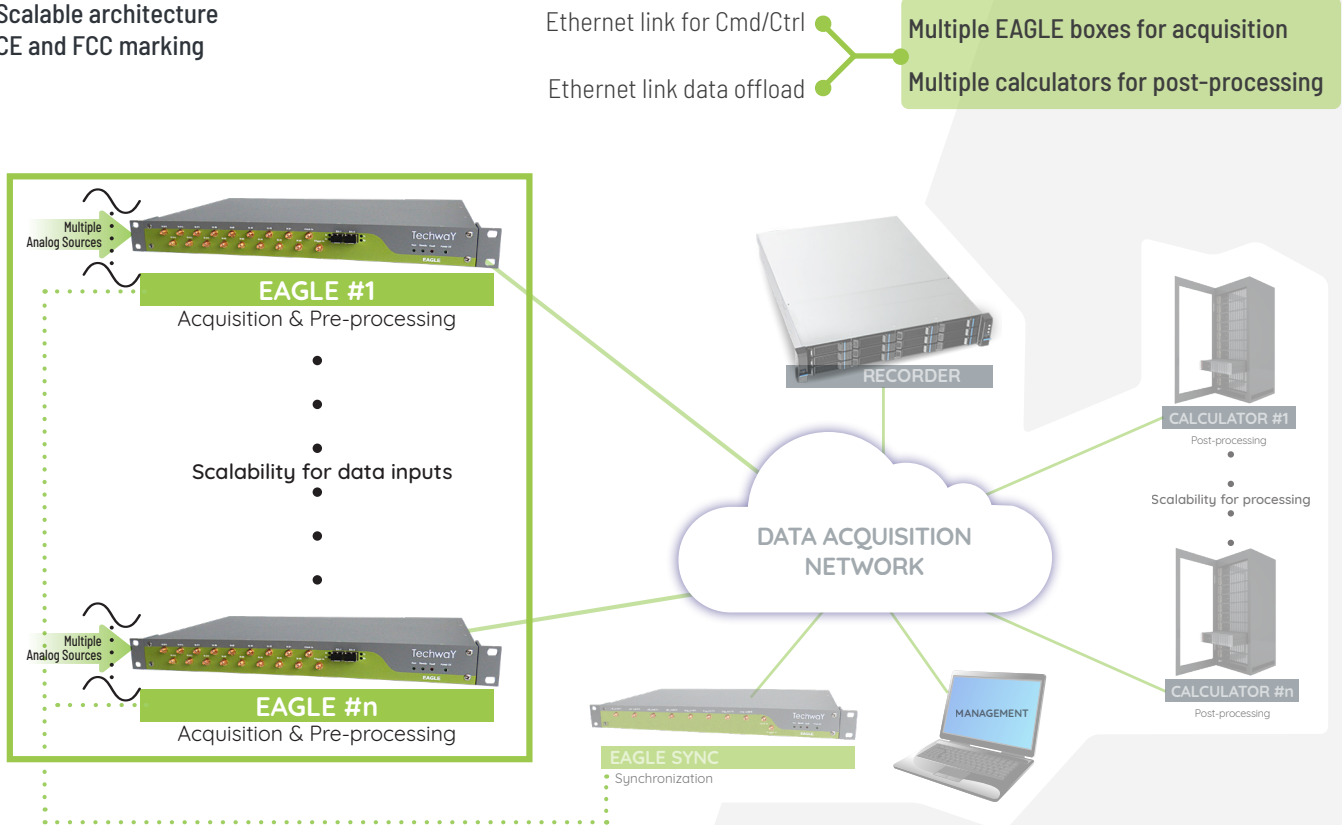Information and photos subject to change without notice

EAGLE ACQUISITION

NARROW BAND

BENEFITS

- Low cost per analog channel
- Data offload over 10 GbEth
- All-inclusive solution
- Scalable architecture
- CE and FCC marking

SCALABILITY CONCEPT - EAGLE ACQUISITION

Ethernet link for Cmd/Ctrl

Ethernet link data offload

Multiple EAGLE boxes for acquisition

Multiple calculators for post-processing

Multiple Analog Sources

EAGLE #1
Acquisition & Pre-processing

Scalability for data inputs

Multiple Analog Sources

EAGLE #n
Acquisition & Pre-processing

RECORDER

CALCULATOR #1
Post-processing

Scalability for processing

DATA ACQUISITION NETWORK

CALCULATOR #n
Post-processing

EAGLE SYNC
Synchronization

MANAGEMENT

ORDERING INFORMATION

ACQUISITION

- **EAGLE_16-125 :**
  16 channels, 16 bits @ 125 MSPS

SYNCHRONIZATION

- **EAGLE_Sync-125 :**
  Synchronize up to 8 EAGLE_16-125

ADD-ON PRODUCTS

Synchronization EAGLE-Synq

A fully integrated product to dispatch clock over up to 8 acquisition boxes.

Recorder

Recording solutions to record at data coming from EAGLE boxes.

Information and photos subject to change without notice