

EAGLE Solution

Network for real-time multi-channel data acquisition & processing

Version 05-17

EAGLE Product Line



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 configurable thanks to an intuitive WEB interface.

Techway offers you 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 GbEth standardized communication interfaces.

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

Applications

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

Main features

Up to 16 input channels,
125 MSPS or 2,5 GSPS sampling frequency,
Embedded DDC & windowing for each channel,
Programmable FPGA processing (Xilinx Kintex 7),
Bypass mode (full bandwidth),
WEB GUI & SNMP,
Data output : 1 or 10 Gb Ethernet,
Power supply: 24 VDC to 50 VDC, 35W max,
Enclosure: 1U/19" 280mm depth, <4kg.

Benefits

Ready-to-use: Embedded processing,
No HDL code required,
Easy to use: WEB or SNMP server,
Low cost per analog channel,
Data offload over 1 or 10 GbEth,
All-inclusive solution,
Scalable architecture,
CE and FCC marking.

Contact

tel : +33 (0)1 64 53 37 90 e-mail : info@techway.eu

All information subject to change without notice

www.techway.eu

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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.

Features

- 125 MSPS or 2,5 GSPS acquisition bandwidth
- Real-time processing
- Intuitive GUI for parameter and cmd/ctrl
- Web or SNMP server
- CE and FCC marking



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 a user-friendly GUI.
EAGLE-Seq guarantees a sample-accurate synchronization.

Features

- Minimal clock jitter
- Up to 4 acquisition boxes
- AWG
- Web or SNMP server



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.

Features

- 1 or 2 channels 10 Gb Ethernet
- Up to 32 TB of storage
- GUI for cmd/ctrl
- Web or SNMP server
- 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
- EAGLE_4-2500 (available H1 2018)
4 channels, 14 bits @ 2,5 GSPS

Synchronization

- EAGLE_Sync-125
Synchronize up to 8 EAGLE_16-125
- EAGLE_Seq-2500
Synchronize up to 4 EAGLE_X-2500
X : 1 or 4

Recording

- T-REC_EAGLE-XX
2 GB/s write rate
XX : 2 to 32 TB storage capacity

