

MAG-POCKET

INTEGRATED SOLUTIONS

Acquisition and Analysis with a Pocket PC

MAG-POCKET is an ultralight acquisition system, able to travel in your pocket. Besides its small size, it is a powerful system with numerous functionalities for acquisition and data analysis. **MAG-POCKET** works as a standalone system or connected to a PC in network architecture. **MAG-POCKET** acquires and analyses data streams from analog channels, telemetry PCM messages, 1553 buses, ARINC 429 channels and Ethernet messages.

Main features

- Complete solution
- Acquisition
- Data analysis
- Multi-sources
- Standalone or distributed

Acquisition

- Analog channels
- Telemetry (PCM)
- MIL-STD-1553
- ARINC 429
- Ethernet

Performances

- Ultra light
- Autonomy : 10 hour in full charge
- Acquisition with storage
- Telemetry at 5 Mbits/s
- 100 parameters



Key points of the MAG-Pocket solution

- Acquisition of the telemetry PCM message (signal + clock, with format IRIG106 class 1 and 2)
- Analog channels
- 1553 messages
- ARINC 429 channels
- Ethernet messages
- Extraction of the parameter included in the frames/messages
- The parameters are extracted, whatever their format (binary, 2's complement, BCD ...)
- Several functions are available to convert the parameters in engineering unit values (linear, polynomial, look-up table, ...)
- Storage on board memory or card memory
- Quick-look visualization to display parameters or dump messages
- User-customizable visualization
- Acquisition configuration defined locally or defined on a PC and downloaded
- Post-processing visualization
- Transfer data to the PC after acquisition, via USB
- The data can be analysed with **MAGALI** software.

MAG-POCKET

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Applications

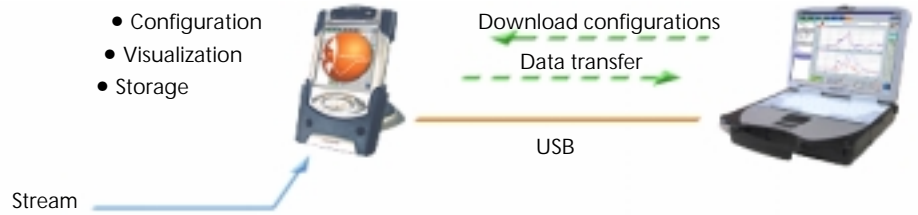
- On-board communication control
- Measure calibration
- Light and flexible visualization system

Related services

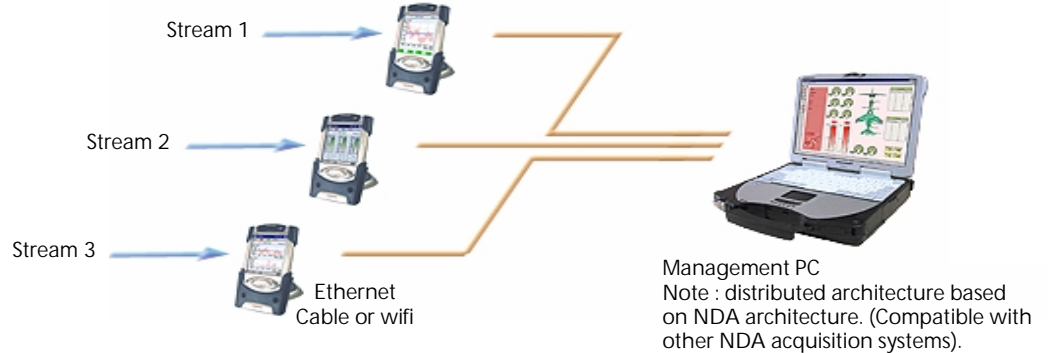
- On site installation
- Validation
- Training
- Maintenance
- Specific add-ons

Description

Standalone mode



Distributed mode



MAG-POCKET

- PCM Signals NRZ + Clock or Biphasé
- Input TTL or RS422
- Acquisition up to 5 Mbps
- Storage memory, 5D or compact flash
- Real-time displays
- Commutable real-time graphic pages
- Format (options) IRIG-106 – CE83 – CCSDS – ARINC 429 – Analog – Ethernet - 1553

PCM features

- PCM word length 4 to 16 bits
- Minor frame length 4 to 32000 PCM words
- Major frame length 4 to 4096 minor frames
- Parity management
- LSB /MSB management

Products

MAG_POCKET with communication modules

Including Pocket PC, software and communication card

- **MAG_PDA/IRIG** For telemetry IRIG 106 format
- **MAG_PDA/CE83** For telemetry CE83 format
- **MAG_PDA/CCSDS** For telemetry CCSDS format
- **MAG_PDA/1553** For MIL-STD-1553 bus
- **MAG_PDA/ARINC 429** For ARINC 429 channels
- **MAG_PDA/Analog** For analogue channels
- **MAG_PDA/Ethernet** For Ethernet messages
- **MAG_PDA/NDA** For MAGALI NDA network

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