

# MAG\_800/TBS-I

## MAGALI STATION FOR TEST BENCHES



### DESCRIPTION

**MAG\_800/TBS-I** is a complete and powerful rack-mount station for multi-source data acquisition.

**MAG\_800/TBS-R** is perfectly adapted to the environment of benches and multi-source data acquisition managing data either from acquisition cards or frames conveyed by digital busses.

**MAG\_800/TBS-R** supports of ARINC-426, ARINC-664, RS, Ethernet, IEEE-488, MIL-STD-1553, DIGIBUS, CAN... digital busses

**MAG\_800/TBS-R** Runs on VME, PCI, Compact PCI, PXI busses, under Windows®, LINUX, UNIX systems, according to platform

### KEY FEATURES

- **Multisource** data input: Telemetry, buses, Ethernet ...
- Time **synchronisation** between all sources
- **Modular** and **open** architecture
- Interfaces with all major constructor
- **Network architecture** option for remote control or distribution
- **Compact and portable** solution to cabinet installation
- **Real time** and **post-processing**



## SPECIFICATIONS

### CONTROLLER

Type	Industrial server, 4 U rack-mount
Processor	Intel® Core™ i3-i5-i7 , 3.2 -3.33-2.8 GHz
Memory	4 Go DDR3 10600
Disk	500 Go
Slot	1 PCIe x 16, 3 PCIe x 1, 1 PCIe x 4, 7 x PCI 32/33 MHz
DVD-RW	Sata
Floppy	3.5" (option)
Network	DUAL LAN (Intel), 10/100/1000 Mbps
VGA	NVIDIA G210
USB	2 x USB 2.0 (front , 6 x USB 2.0 (Back side),
size W x D x H	482 x 472 x 177 mm
Weight	Approx. 15 kgs
Operating system	Windows 7 32-bit

## INPUTS/OUTPUTS

TOR digital inputs and outputs : from 1 to 48 channels,

ARINC-429 : 32 RX/TX channels maximum

ARINC-664 : 2 slots

CAN : 2 HS, LS or single wire slots

MIL-STD-1553 : 1-4 flow/class of levels/flows

Serial : 1 to 8 slots

Ethernet : 2 slots

## SOFTWARE

### Contexts

Storage and test zone manager

Test preparation

Real-Time acquisition and storage with graphic visualization and synoptic

Replay

Post-Processing analysis

Post-Processing visualization

### Tools

Tools Graphic frame editor for Real-Time and Post-Processing modes

Tool for import and export in ASCII and binary

Macro-command creation and execution tool

Sampling database

Material resources self-test engine

User management by rights and profiles

Manipulation of inter-context variables and modules

## FUNCTIONALITIES

### PREPARATION

- Smart management of test areas and storing units of data and parameters
- Manipulation of system or user data via public and shared variables
- Intuitive definition of start and stop conditions, pre/post starts
- Tree structure of analogue, digital and count/frequency input and output channels
- Input and output decommutation editor via supported digital busses
- Linearization in engineering units integrated to the definition of channels
- Definition of alarms on multiple criteria
- Definition of derivative channels for real-time calculations with a simple integrated scientific calculator
- Integrated synoptic editor with graphic tools for real-time visualization
- Easy graphic frame notion
- Macro-command editor for simple automation of activities
- .../...

### ACQUISITION

- Real-time engine with acquisition, decommutation and vector calculation
- Calculation and generation of real-time outputs
- Alarm processing
- Multiple Real-Time visualizations by selection of pages and synoptics
- Support of VME, PCI, PXI Real-Time platforms of National Instruments and ADAS brands
- Support of ARINC-429, ARINC-664, MIL-STD-1553, IEEE-488, Ethernet, serial... digital busses
- Storage of data in Real-Time test areas
- Timestamp of data on IRIG time (If available)
- .../...

### ANALYSIS

- Real-Time or Post-Processing analysis
- Smart calculator generating formulas without inputs
- Arithmetic formulas, numeric calculation, trigonometry
- Analysis functions, Boolean logic
- Signal processing module: FFT, spectrum analysis, numeric filtering, transfer functions, etc...
- Statistics module: Standard functions, regression, interpolation, distribution, etc...
- Special point seek module: tracking of extremes, specific data, etc...
- Large graphic analysis: zoom, reticule, scrolling, etc...
- .../...

### REPLAY

- Complete replay of acquisition is possible
- Real-time replay,
- Speed-up or Slow-down replay
- Acquisition, calculation replay
- Same functions in replay and acquisition modes
- .../...

## PUBLICATION

- Test result management via storing units and test areas; no file management for the operator.
- Integrated report creation tool
- Data exportation module
- .../...

*For more information, please contact us*

*Specifications are subject to change.  
Please, verify the latest specifications  
prior order.*

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