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INSTRUMENTATION DEVICES SRL

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ZODIAC DATA SYSTEMS / HEIM

AEROSAFETY & TECHNOLOGY Telemetry & Telecommunications



BEYOND ENGINEERING – A NEW RECORDER FAMILY



HEIM DATaRec® MDR SERIES THE NEXT GENERATION FTI

The HEIM DATaRec® MDR-2s is a digital data acquisition system that can be equipped with user changeable signal conditioning modules to meet various applications. The cockpit mountable housing contains a CF card slot for the recording media.



- cutting edge technology
- integrated signal conditioning
- rugged and reliable
- compact size
- feature rich mainframes
- designed to applications
- scalable performance
- end user can easily swap signal modules



HEIM DATaRec® MDR SIGNAL MODULES

The HEIM DATaRec® MDR signal modules can be integrated in a MDR mainframe and combined with any other HEIM DATaRec® MDR modules to a multi channel recording system. This provides full flexibility and ensures the right FTI system for your demands.



Modules	Description
MANA8	8 analogue input channels, up to 100 kHz sampling rate per channel
MARR16	16 ARINC 429 input channels
METH2	2 Ethernet input channels 10BaseT, 100BaseT, 1 Gbit/s
MMRG8	8 PCM input channels, up to 30 Mbit/s data rate per channel
MUAR6T	6 dual redundant MIL STD 1553B input channels, transformer coupled
MUAR6D	6 dual redundant MIL STD 1553B input channels, direct coupled
MUSM16	16 asynchronous serial input channels
MVCR1	2 high definition analogue video input channels



WHAT IS YOUR REQUIREMENT TODAY?



MCSR COCKPIT REMOTE CONTROL

- eSATA connection to MDR (PoE Ethernet: work in progress)
- Protected Start/Stop switch
- Sealed memory cartridge slot for SSD (\leq 500 GB) and CF cards (\leq 64 GB)





MDR SIGNAL INTERFACE MODULES

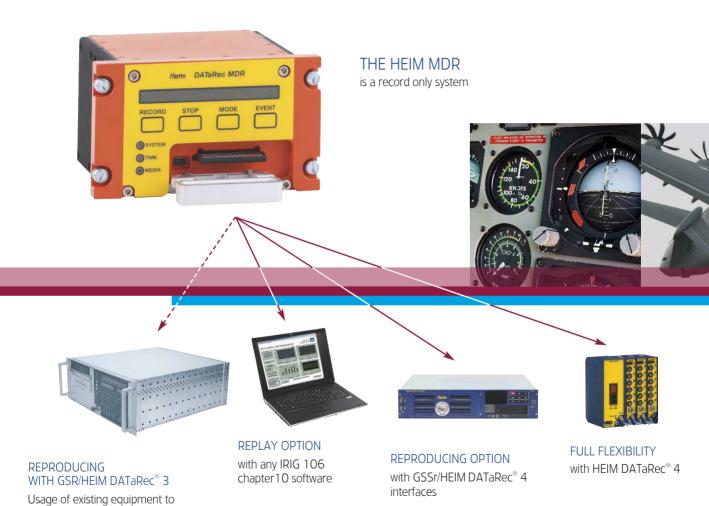
- ARINC 429 (16 channels)
- MIL-STD-1553 (6 channels dual redundant)
- PCM (8 ch., throughput 30 Mb/sec, max. 100 Mb/s)
- Video I (2 ch. analogue PAL/NTSC, HD H.264/AVC)
- Video II (2 channels HD SDI, H.264/AVC)
- Analog I ICP (8 channels, 100 kHz sampling)
- Ethernet 2 channels 10/100/1000 Mb/sec
- Asynchronous serial (16 channels)
- Hybrid Avionics (PCM, MIL, ARINC)

MDR-2S MAINFRAMES

- Built in Ethernet 10/100/1000 Mb/s
- Built in 2 channels voice
- Built in serial RS232 / RS422
- Time code IRIG A, B, G, IEEE1588 and GPS NMEA
- Sealed CompactFlash slot
- External media via eSATA and Ethernet
- System bus speed 800 Mbit/s
- IRIG-106 chapter 10 data format
- Easy setup via front panel USB, serial or Ethernet
- Contact remote connector w. 6 discrete in & out
- Full UDP broadcasting

REPLAYING YOUR RECORDS

reduce flight test costs



HEIM DATaRec® MDR SERIES AT A GLANCE



Description	The HEIM DATaRec® MDR series is a flexible record only data acquisition system
System bitrate	100 Mbit/s
Bus data rate	800 Mbit/s
Data format	HEIM DATaRec® format. IRIG 106-07 chapter 10 complaint
Internal storage device	removable CF card
Storage capacity	16 GB / 32 GB / 64 GB available. GF cards up to 128 GB supported
Slots	2 slots are available for signal conditioning modules. All modules are interchangeable and can be exchanged by the customer
Power supply	11-38 V DC designed to MIL-STD-704E including power interruption of 50 ms
Shock resistance	20 g, 11 ms MIL-STD-810E



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