



MCRS

Multi Channel Recording System

MCRS is a **High End** recording, playback and analysis system offering synchronous long term recording with extremely high data rates.

Features

- Combined 1500 MBytes/sec Data Rate
- Up to 15 Input Channels
- Up to 1000 Virtual Channels
- Online enabling/disabling of selected channels
- Serial Data Input (optional)
- LAN Data Input
- LAN control
- MIL-STD-1553 Data Input (optional)
- MIL-STD-1553 Control (optional)
- Common Time Source
- Variety of triggers to start and/or stop recording
 - Time trigger (HW clock, network time, etc)
 - Network event
 - Muxbus event
 - Data Pattern
 - Any combination of above triggers
- Light weight, low power, low profile for military or commercial specs.



Product Description

MCRS is a real time recording and playback system designed for long term synchronous recording of multiple channels with very high data rates. MCRS may be supplied as a stand-alone HW box (military, industrial and commercial specifications are available) or as a SW component that may be installed on customer's computer (the picture in this document is an example of military configuration).

Modular structure and variety of external interfaces of MCRS allow easily integrating it in customer's environment.

MCRS is capable of recording critical mission information for long periods of time using solid state or magnetic media per application and environment requirements definition.

Selection of channels for recording may be defined by network and transport addresses of data sources and/or destinations, by muxbus addresses (RT address/subaddress) or by Data Patterns.

Data analysis can be done using the real time playback option which enables reconstruction of recorded data traffic according to the original timing, local or remote playback control, playback filters and triggers or playback bookmarks.

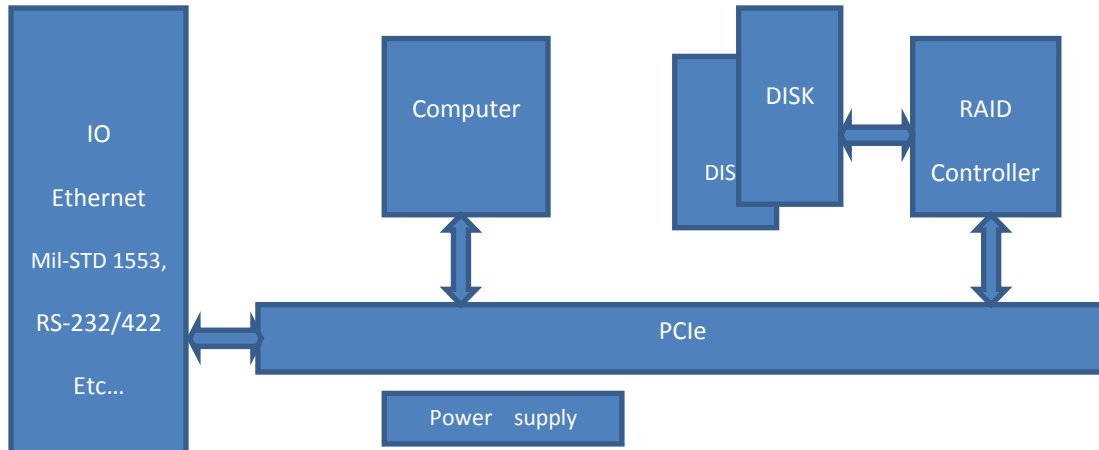


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Specifications

MCRS can be supplied in a variety of HW configurations as per customer definition and requirements. It may be fully military, commercial or industrial level. All MCRS configurations are able to meet the high recording performances.

MCRS Block Diagram:



Example of a configuration display:

Channel Name	User Info	Source IP	Source Port	Dest. IP	Dest. Port	Data Pattern Offset	Data Pattern th (in b)	Data Pattern	Network Interface	Data File Name	Enabled	Trigger Data Pattern Offset	Trigger Data Pattern Length (in bits)	Trigger Data Pattern	Start Time	Abs/Rel	Stop Time	Abs/Rel
Ch. # 0 channel 1	Visual 1	192.168.1.1	5000	192.168.1.2	6000	0	0	0x0	OnBoard	DATA00.dat	enabled	16	16	0xaa	14:00:00	absolute	18:00:00	absolute
Ch. # 1 channel 2	Visual 2	192.168.1.1	5001	192.168.1.2	6001	0	0	0x0	OnBoard	DATA01.dat	enabled	16	16	0xaa	00:00:00	absolute	00:00:00	absolute
Ch. # 2 channel 3	Visual 3	192.168.1.1	5002	192.168.1.2	6002	0	0	0x0	OnBoard	DATA02.dat	enabled	16	16	0xaa	00:00:00	absolute	00:00:00	absolute
Ch. # 3 channel 4	Audio 1	192.168.1.1	5003	192.168.1.2	6003	0	0	0x0	OnBoard	DATA03.dat	enabled	0	0	0x0	00:00:00	relative to start	00:00:00	relative to start
Ch. # 4 channel 5	Audio 2	192.168.1.1	5004	192.168.1.2	6004	0	0	0x0	OnBoard	DATA04.dat	enabled	0	0	0x0	00:00:00	relative to start	00:00:00	relative to start
Ch. # 5 channel 6	Audio 3	192.168.1.1	5005	192.168.1.2	6005	0	0	0x0	OnBoard	DATA05.dat	enabled	0	0	0x0	00:00:00	relative to start	00:00:00	relative to start
Ch. # 6 channel 7	Data 1	192.168.1.1	5006	192.168.1.2	6006	0	0	0x0	OnBoard	DATA06.dat	enabled	0	0	0x0	00:00:00	relative to start	00:00:00	relative to start
Ch. # 7 channel 8	Data 2	192.168.1.1	5007	192.168.1.2	6007	0	0	0x0	OnBoard	DATA07.dat	enabled	0	0	0x0	00:00:00	relative to start	00:00:00	relative to start

```

13:44:30. Start Monitoring event (l) <192.168.1.1:0 - 192.168.1.2:6003 - 00000000> Channel# 3
13:44:30. Start Monitoring event (m) <192.168.1.1:0 - 192.168.1.2:6004 - 00000000> Channel# 4
13:44:30. Start Monitoring event (n) <192.168.1.1:0 - 192.168.1.2:6005 - 00000000> Channel# 5
13:44:30. Start Monitoring event (o) <192.168.1.1:0 - 192.168.1.2:6006 - 00000000> Channel# 6
13:44:30. Start Monitoring event (p) <192.168.1.1:0 - 192.168.1.2:6007 - 00000000> Channel# 7
13:44:30. -- Event [Evt_1_192.168.1.1:0_192.168.1.2:6000_00000000], Channel# 0.
13:44:30. -- Event [Evt_2_192.168.1.1:0_192.168.1.2:6001_00000000], Channel# 1.
13:44:30. -- Event [Evt_3_192.168.1.1:0_192.168.1.2:6002_00000000], Channel# 2.
13:44:30. -- Event [Evt_4_192.168.1.1:0_192.168.1.2:6003_00000000], Channel# 3.
13:44:30. -- Event [Evt_5_192.168.1.1:0_192.168.1.2:6004_00000000], Channel# 4.
13:44:30. -- Event [Evt_6_192.168.1.1:0_192.168.1.2:6005_00000000], Channel# 5.
13:44:30. -- Event [Evt_7_192.168.1.1:0_192.168.1.2:6006_00000000], Channel# 6.
13:44:30. -- Event [Evt_8_192.168.1.1:0_192.168.1.2:6007_00000000], Channel# 7.
13:44:30. Monitoring 8 events.
13:44:30. Start QThreadMonitorStatistics 1000 msec.
13:44:30. Start Monitoring 8 events.
14:15:28. Recording paused...
14:16:02. Stop recording...
14:16:02. Stop recording (D:\BVCRA\DSA28D0C-CC28-46C2-817F-A2FB808C639F) successfully...
14:16:02. Stop QThreadMonitorStatistics (0).
14:16:02. Stop Monitoring.
  
```

Total 100,006 MB Free 89,649 MB. (89% of disk space) 00:30:58

Applications

- Intelligence, Surveillance and Reconnaissance (ISR)
- Radar and Sonar signal capture and playback
- Audio streams recording and playback
- Electronic Intelligence Recording Systems (SIGINT, COMINT)
- Semiconductor quality inspection systems
- Seismic data acquisition and physics research

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