

ASP 708 IRIG 106 Chapter 10 Support

Recording of Data Streams in Accordance with IRIG 106 Chapter 10

Code 51708

ArtemiS SUITE supports the standardized IRIG 106 Chapter 10 format, which is used in high-performance test and telemetry systems, particularly in aviation and aerospace applications, for the acquisition of complex data streams.

Using an appropriate frontend, the data streams can be conveniently recorded with the Recorder of ArtemiS SUITE (APR 040 is required). At the same time, existing measurement infrastructures can continue to be used, enabling seamless integration of telemetry data into established workflows.

Only analog channels can be read from the data streams on the network. Data transmission is performed via UDP (unicast, multicast, or broadcast).

A prerequisite for recording the measurement data is the manual entry of the UDP ports used and, in the case of multicast transmission, the associated IP address. The hardware configuration is obtained directly from the data stream and cannot be modified.



OVERVIEW

KEY FEATURES

- › Seamless integration of IRIG 106 Chapter 10 telemetry data streams, e.g., from aviation and aerospace applications, into the Recorder of ArtemiS SUITE
- › Flexible, network-based data transmission (streaming) via UDP (unicast, multicast, broadcast)
- › Time-synchronous reading of the analog channels while maintaining high data integrity
- › Simultaneous use of existing measurement systems

APPLICATIONS

- › Aviation and aerospace (IRIG 106 Chapter 10 as an industry standard):
 - » Monitoring aircraft and drones
 - » Analyzing sensor, flight, and system data
- › Spaceflight and rocket development
 - » Processing telemetry data, for example during rocket launches
 - » Synchronizing ground-based and onboard data

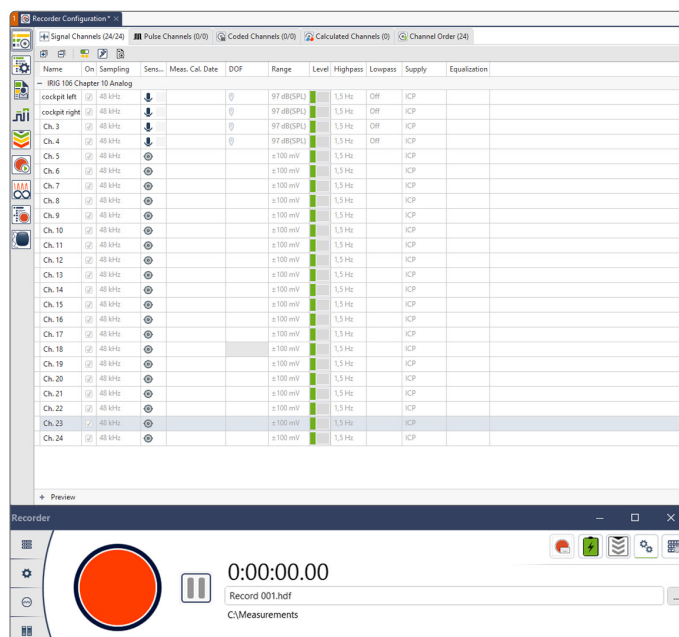
SPECIFICATIONS

Prerequisite	Description
Frontend registration	Manual registration via IP address and/or port
Data protocol	UDP (unicast, multicast, broadcast)
Data transmission	Receive only
Supported channels	Only analog channels from the data stream
Hardware configuration	The hardware configuration (data packets with channel ID 0) is extracted from the data stream and cannot be modified
Time packets	The data stream must contain time packets (data packets with channel ID 1)
Adjustments	Channel names and assigned sensors are editable

LICENSES AND OPTIONS

Requirements

Code	Product Name	Description
50000	APR 000 APR Framework	Basis of ArtemiS SUITE
51708	ASP 708 IRIG 106 Chapter 10 Support	Recording of data streams in accordance with IRIG 106 Chapter 10
50040	APR 040 Recorder	Universal Recorder of ArtemiS SUITE for all types of measure- ments



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