



## Telemetry Processor

Sophisticated data display, trending, and analysis

Create, save, and restore mission definitions

Import existing telemetry format definitions

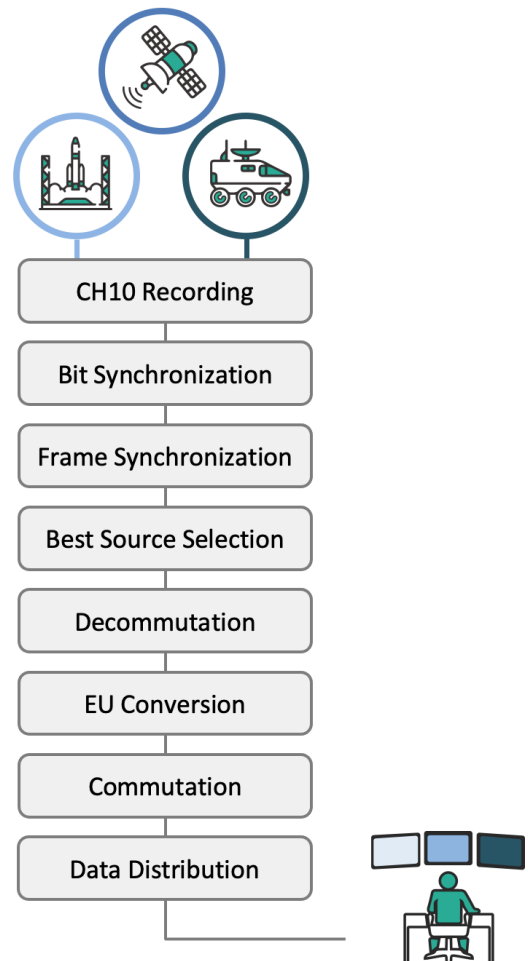
TMoIP, Serial, Analog, 1553, and other data interfaces

### OVERVIEW

Acquire and process launch vehicle, missile, and satellite data with AMERGINT's inSIGHT™ Telemetry Processor. Powered by a suite of telemetry applications, the Telemetry Processor offers the ability to combine or distribute the traditional functions associated with processing a telemetry downlink, integrating into your current ground telemetry system and evolving as your requirement change.

The Telemetry Processor utilizes modular software applications (called Apps) to perform the telemetry functions often performed in proprietary hardware/firmware (e.g., bit synchronization, frame synchronization, and decommutation). With today's commercial multi-core processors, these functions are performed in the Telemetry Processor software at real-time speeds.

Choose only the Apps you need, and combine Apps on a single server or hosted in a distributed architecture per mission's concept of operations (CONOPs). Apps can be redistributed or combined to support a new CONOPs without re-work or installation of new hardware.



## Telemetry Processor Apps

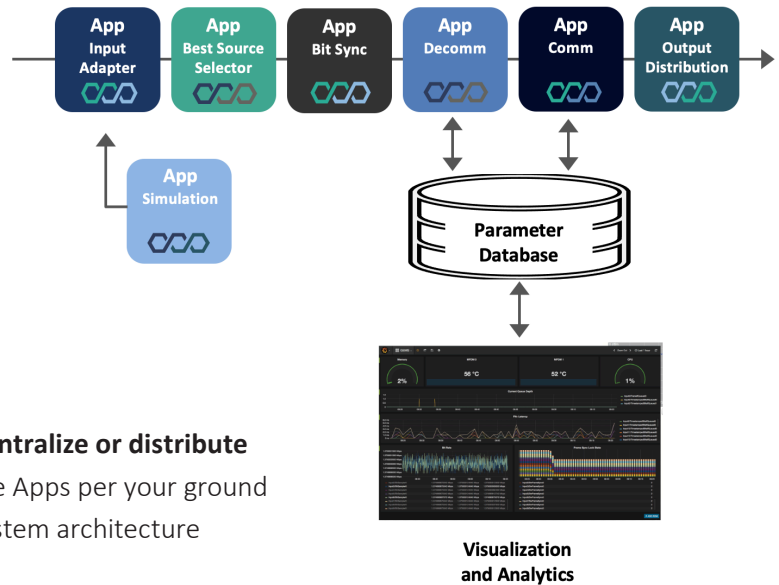
Telemetry Processor Apps interconnect using network protocols and matrix switching software, which allows Apps to be added and deployed to support a specific mission configuration. Process more telemetry streams by adding the necessary Bit Sync and Frame Sync Apps. Need to record data at multiple locations? Then, start Chapter10 Recorder Apps where needed. Switch between TMoIP and serial data streams using the correspond Interface Adapter App.

**Mission Manager and Mission Definitions** configure the Telemetry Processor Apps

**Apps are deployed** to match the number of telemetry streams and processing requirements

**Centralize or distribute** the Apps per your ground system architecture

## inSIGHT Telemetry Mission Manager



## SPECIFICATIONS

Feature	Specification
Physical Interfaces	Analog, digital, Ethernet, RS-530, RJ-45, BNC, Triax, DB connectors
Protocols	PCM and PCM/FM, TTL / RS-422, UDP / UDP Multicast, TCP, TMoIP, Ch10
Bit Synchronizer	Support for PCM formats Scalable data rates Viterbi and convolutional decoder
Best Source Selector	Uses frame sync statistics Virtually unlimited sources Manual, automatic, or mission timeline CRC and other data quality checks
IRIG 106 Chapter 10 PCM Recording	PCM packed, unpacked, and throughput ASCII TMATS format Store and replay raw or post-detection data streams Standalone or integrated with solution IRIG-B time-stamping Built-in BERT
Frame Synchronization	Programmable sync strategy Data rates up to 1 Gbps Error detection / correction

Feature	Specifications
Decommutation	Word, byte, or bit level Support for embedded frames Raw, EU, derived parameters Async embedded streams
Parameter Archive	EU converted measurands Archived with ms time accuracy Derived parameters Raw
Data Display	Current value display 10 Hz real-time update rate Alerts, bar graphs, trend lines, strip-chart, Zoom in / zoom out
Data Analytics/ Visualization	Real-time or post-mission analysis Full complement of data display widgets Rapid analysis of historical or correlated data
Telemetry Simulation	File replay from RF/IF or Ch10 recordings Generated telemetry streams Digital, baseband, or RF outputs Parameter editing (recordings or playback) System test/verification Personnel training

## WE ARE THE LINK

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