

Telemetry test ranges provide effective means Of receiving data from multiple on board sensors for Post flight analysis. The flight data collection without loss of information is very crucial in telemetry. UTS provide improved telemetry receiver subsystems for ground and mobile applications.

PCM Decommutator is one of the key base band processing requirements in several telemetry applications. In missile and space telemetry supporting both standard and non-standard PCM formats. The user programmable frame header and payload sizes are configurable.

Key Features

- ❖ Wide range of data rate support
- ❖ Configurable frame lengths and number of channels.
- ❖ User friendly GUI interface
- ❖ IRIG reader and generator (optional features)
- ❖ Configurable output levels
- ❖ Support for different PCM codes
- ❖ Multi channel configuration available.
- ❖ Remote control (optional feature)
 - RS-232
 - LAN

Model No. : UTS-PCMD1-V1.5



Specifications

Parameter	Value
PCM Decommutator	
Inputs	NRZ-L Data & 0 Clock, BNC female
Input levels	TTL/RS 422, selectable
Input Data Rate	1 kbps to 20 Mbps
Word length	3 to 16 bits(32 bits with software)
Minor frame length	2 to 32 K words per minor frame
Major frame length	1 to 1024 minor frames per major frame
Bit order	MSB or LSB, selectable
Frame Sync pattern	up to 64 bits
Frame Sync location	Beginning or end of the frame (selectable)
Frame Sync Strategy	Adaptive mode (search-lock-verify) and burst mode (search-lock)
Sync Error Tolerance	0 to 15 bits
Sync Slip Window	1 to 3 bits wide(selectable)
Data Polarity	Normal, inverted or automatic, Selectable
Parity	Odd or even or none, selectable.
Major Frame sync method	Selectable from SFID, URC & FCC.
	Provision to extract, store and process the IRIG / Asynchronous/ 1553 embedded messages and display
IRIG Time code reader and generator	
Input format	IRIG A, B, G.
Carrier frequency	As per IRIG recommendation
Input level	1Vpp , Maximum 5 Vp-p
Latency	2µsec maximum
Output format	IRIG A, B, G. BNC female connector
Output level	1 V (peak to peak nominal)
PCM Simulator	
Outputs	Data, 0 ⁰ & 90 ⁰ clocks. BNC female Connector.
Output levels	TTL/RS 422, selectable
Output Data Rate	1 kbps to 20.0 Mbps (NRZ codes)
PCM Codes	NRZ-L/M/S, BI Ø-L/M/S
Word length	3 to 16 bits
Minor Frame length	2 to 32 K words
Major Frame length	1 to 1024 minor frames
Bit order	MSB/LSB first
Sync	up to 64 bits
Mechanical	(may vary depending on optional features)
Size	3U, 19 Inch Rack Mountable
Weight	28 Kg