



# PTP-SW | PROGRAMMABLE TELEMETRY PROCESSING SOFTWARE

The PTP software application provides a modular set of components that can be linked together to create a data handling or processing stream that is intuitive, flexible, and customizable. Rather than coding and compiling, users are presented with a menu-based graphical user interface (GUI) through which PTP modules can be selected, added, configured, linked together, rearranged and reconfigured. Changes to the data processing stream can be applied in seconds, and results can be viewed and analyzed instantly.

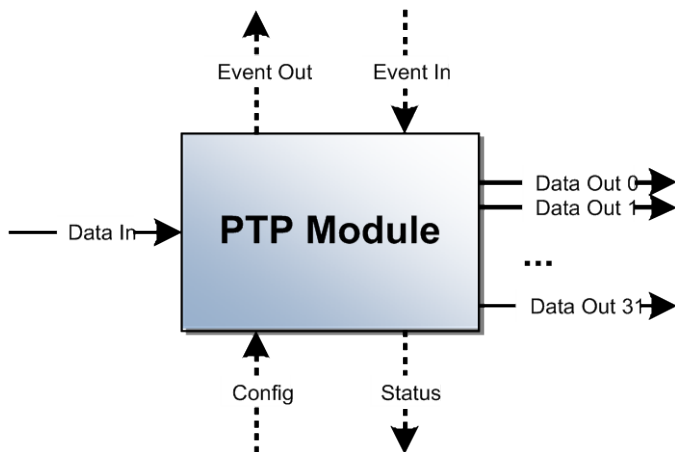
All PTP modules are built with a set of standard input/output features. The modules can receive data and output one or more data streams; each module can be configured and monitored using the GUI; and each module can respond to or generate events that other modules can receive and to which they can react.

The standard PTP software includes over 100 modules that allow users to perform a broad range of tasks, including:

- Frame synchronization and data capture
- Error detection and correction
- CCSDS telemetry frame and packet processing
- TDM telemetry frame processing and distribution
- File recording and playback
- Test data generation and BERT verification

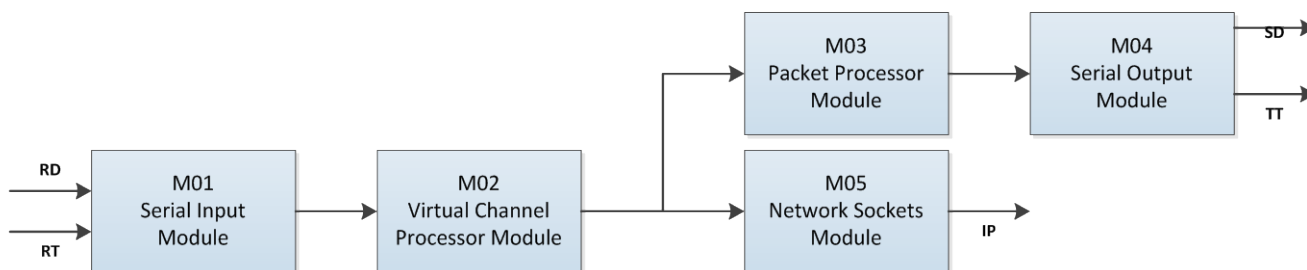
The PTP application requires no specialized hardware to run, and can operate effectively on most Windows 7 and late-model Windows XP PCs. It implements a client-server architecture, and can provide access to multiple users across a network. Clients can monitor PTP processing, or control the PTP, as needed. Multiple instances of the PTP application can be hosted on a single platform, and run independently or in coordination with another server.

A set of PTP modules can be linked together to form a data processing solution. In the example shown below, PTP serial interfaces are used to receive data and pass it onto CCSDS processing modules. Following the processing, data is streamed out through network sockets to a multiple recipients elsewhere on the user's ground network.



### Key Features

- Completely flexible system for data processing
- Detailed status provided at every step of the processing sequence
- Quickly reconfigurable, even when data is flowing
- Large number of standard modules available
- System configuration can be saved as a file and recalled in seconds

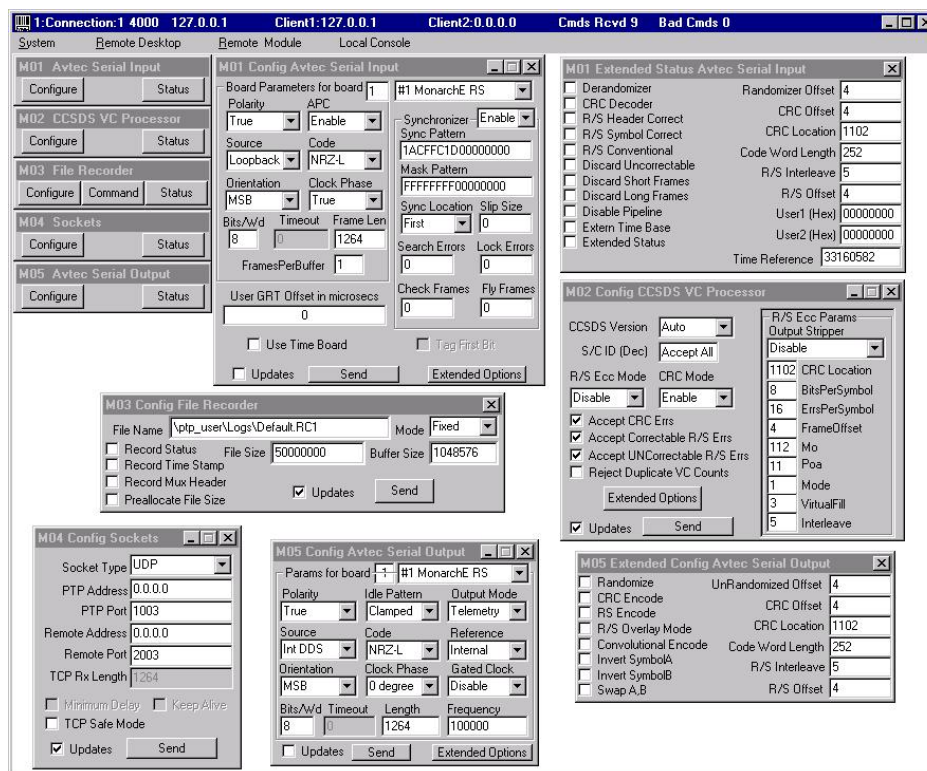


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## Available PTP Modules

ACE SFDU Formatter  
 Ames Command Encapsulator  
 ATM  
 AXAF SFDU Formatter  
 BCH Decoder  
 BCH Encoder  
 Best Source Select  
 Bit Density Correction  
 Bit Error Rate Tester Ver2  
 Byte Interleaver  
 CCSDS Telecommand Controller  
 CCSDS Telecommand Encoder  
 CFDP Rx  
 CFDP Tx  
 Com Port Transceiver  
 Command Verify  
 Composite TDM  
 Convolutional Encoder  
 CPU Timer  
 Datum Time IRIG  
 DDD Formatter  
 Decom  
 Delay  
 Demod Bitsync Viterbi  
 Desktop Control  
 DST SFDU Formatter  
 Error Inject  
 EDOS Service Header (ESH) Formatter  
 EVCDU Processor  
 EXU Codec  
 File Archive Manager  
 File Playback  
 File Recorder  
 File Spooler  
 Gap Filler  
 Gap Report  
 Gather Scatter  
 GDP 225 WB Frame sync  
 GDP FSK AM SGLS Modulation  
 GPIB  
 GPIB receiver  
 GPIB test modulator  
 High Rate Input  
 High Rate Output  
 High Speed Frame Sync  
 High Speed Simulator  
 HRFM Scoring  
 In-Line Unzip  
 In-Line Zip  
 IPDU Formatter  
 IPDU Receiver  
 LEO-T CDH Formatter  
 LEO-T CDH Receiver



LEO-T TFDH Receiver  
 LEO-T TFDH Transmitter  
 Loopback  
 Monarch TIC Reference Calibrate  
 Multicast VCDU Receiver  
 NASCOM Blocker  
 NASCOM Deblocker  
 NASCOM RTP Formatter  
 NASCOM RTP Receiver  
 Network Sockets  
 NGC Header  
 Null Transceiver  
 Packet Processor  
 Parallel Mixer  
 PCM Decoder  
 PCM Encoder  
 PSK Mod  
 Randomizer  
 Rate Adjust  
 Raw Ethernet  
 Serial Input  
 Serial Output  
 Simple Dibit  
 SLE CLTU Provider  
 SLE CLTU User  
 SLE CMOD

SLE Frames Provider  
 SLE Frames User  
 SLE Manager  
 SMC Command Adaptation  
 SMC Echo Adaptation  
 Sorter 16-bit  
 Sorter 8-bit  
 SRI S-Band Receiver  
 SRI S-Band Transmitter  
 Stream Reader  
 Stripper  
 Super Synchronizer  
 Symbol Gen  
 Taxi SMEX Header Formatter  
 TDM Simulator  
 TechnoBox Taxi  
 Time  
 Time Delay Test  
 TLM-0161 SFDU Formatter  
 TLM-3-29 SFDU Formatter  
 Turbo Decoder  
 Turbo Encoder  
 Turbo Verify  
 Virtual Channel Processor  
 Viterbi Decoder

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