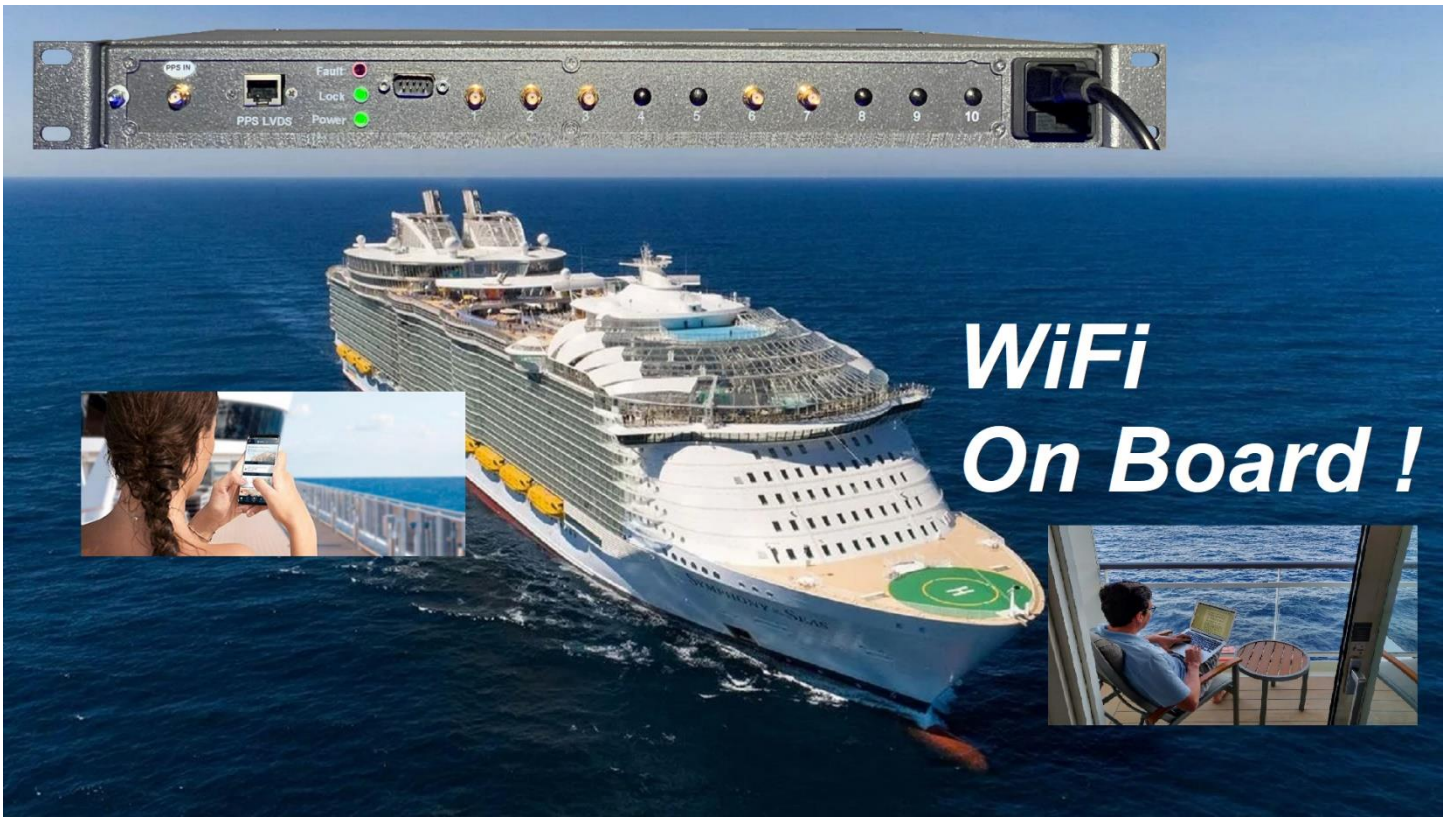
PTF
Precise Time and Frequency,LLC

Short Form Catalog



Precise Time and Frequency, LLC

Precise Time and Frequency, LLC, 50L Audubon Road, Wakefield, MA 01880, USA
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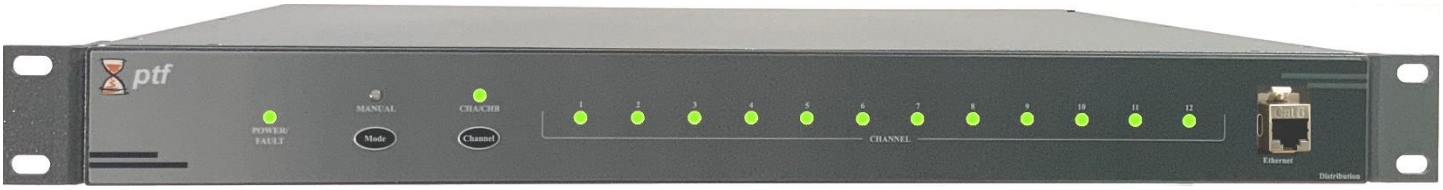
Distribution Amplifiers

12 Channel Broadband, Optical or Configurable

ptf 1202A HF (30MHz – 400MHz)
ptf 1203C RF (0.1MHz – 50MHz)
ptf 1203D Matched Phase Distribution
ptf 1204A Digital (DC – 50MHz)
ptf 1205A Time Code Distribution

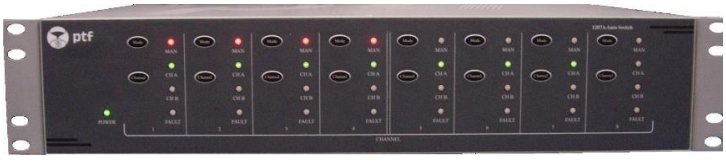
ptf 1206A Configurable Distribution (1U)
ptf 1207A Configurable Distribution (2U)
ptf 1208A Optical Distribution (TX)
ptf 1209A Optical Distibution (RX)
ptf 1231A GNS Antenna Distribution

12 Channel Distribution with Remote Monitor / Control

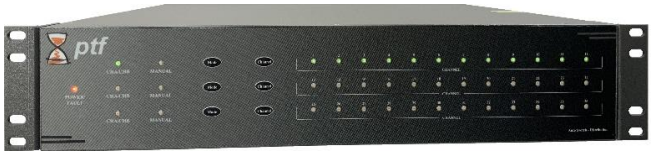


ptf 1203C-MC Broadband RF, 12 Channel, auto switched input optional
ptf 1204A-MC Broadband Digital, 12 Channel, auto switched input optional
ptf 1205A-MC Amplitude Modulated Time Code, 12 Channel, auto switched input optional

Redundancy Auto Switches with Remote Monitor / Control



ptf 1207A Failsafe, multichannel Auto Switch



ptf 1226 RF/Digital Pair Input, Multi Output

Precise Time and Frequency, LLC has the widest range of time and frequency distribution and redundancy auto switch products on the market today.

Our distribution products utilize flexible broadband technology to cater for the widest range of application requirements. The distribution amplifiers include either feedthrough inputs (to enable expansion without performance compromise) or auto switched inputs for redundancy applications.

All products are designed for high isolation and low phase noise/jitter. Configurable distribution units allow combinations of RF, Digital, and Time code signals within the same package.

The remote monitoring/control interface monitors all inputs and outputs, provides analog level monitoring for RF channels, and provides remote channel switching for auto switched inputs.

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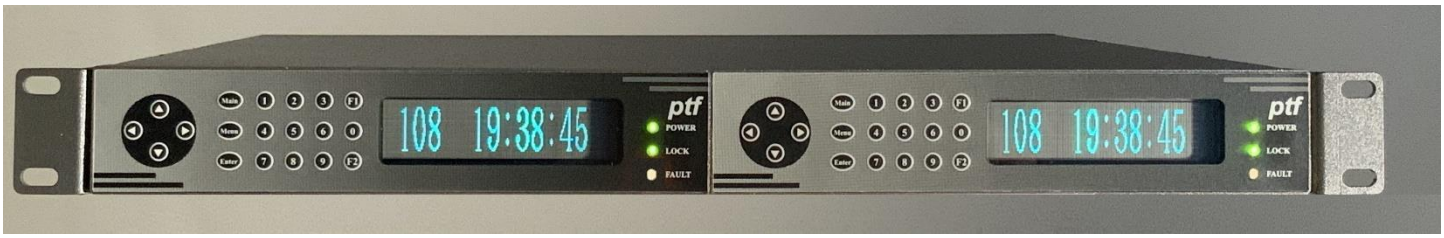
GNS Receivers, Frequency Standards, and NTP Servers

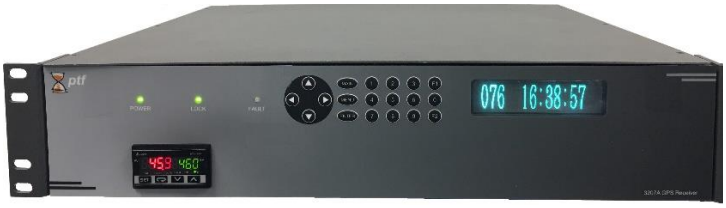


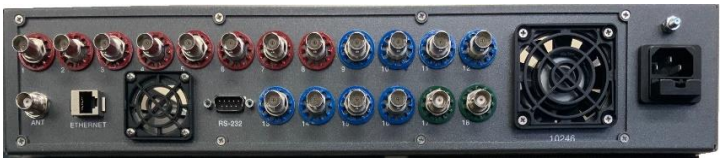
ptf 3207A Dual Module, GNS Frequency and Time Standard

The ptf 3207A GNS Frequency and Time Standard represents a remarkable step forward in the application of the latest GNS technology to precision frequency and time reference standards. The unit incorporates a front end processing module that receives GPS, Glonass, Galileo, QZSS, and SBAS signals, providing a satellite based reference system that is as robust as any. Also incorporating the latest in anti-spoofing and anti-jamming technology, the unit insures delivery of secure, reliable reference signals even under hostile conditions.

The outstanding performance is complemented by a rich feature set including RS232, and Ethernet remote monitor control, NTP v4 network time protocol, and SNMP v1, 2, and 3. With the addition of a dual module configuration, our customers are now able to realize a complete high performance, dual redundant system housed within a 1U package.

ptf 3207A – UTC





The ptf 3207A-UTC addition to the ptf 3207A family provides an especially optimized GNS disciplined standard, designed to synchronize to within better than 10 nano seconds with respect to UTC.
With included temperature control of the unit, typical performance over extended periods (several days) has been shown to achieve synchronization accuracies better than three nano seconds.

The unit includes multiple outputs and remote control of the temperature controller for added flexibility. The internal rubidium source provides improved stability and excellent holdover characteristics when needed.

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PTF
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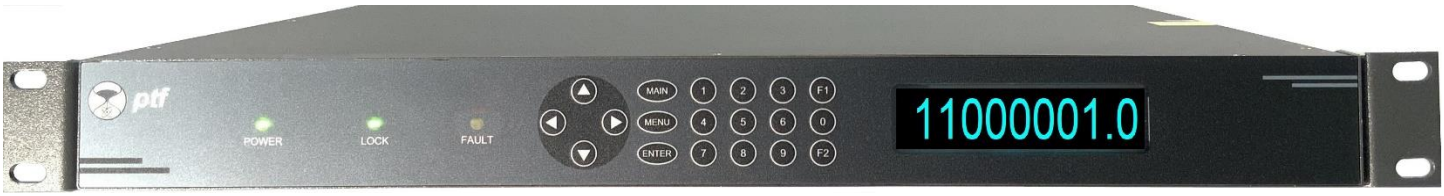
Quartz and Rubidium Standards.

ptf 4211A Front View

ptf 2210A Low phase noise Quartz
ptf 4210A High performance Rubidium
ptf 4211A Standard Performance Rubidium
ptf 4220A Ultra Low Noise Rubidium

ptf Quartz and Rubidium frequency Standards provide a range of capabilities including low phase noise options, multiple output frequencies, remote monitor / control, external input disciplining capability, and much more. These frequency standards provide an excellent stand-alone solution when GNS is either unavailable or unnecessary for the requirements of the application. Many units include external discipling to either a 1PPS or RF source.

ptf 1229A Micro Phase Stepper, Frequency Generator



The ptf 1229A provides a simple and elegant way to provide a phase offset to an external input. The unit will accept an external 10MHz input, and will then provide the capability to offset the output in phase steps down to 1 nano second.

In addition, the unit can be used as either a stand-alone or externally disciplined unit to provide any frequency output from DC to 30MHz.

Both RF sine and TTL output signals are provided.

ptf 3207A-TC Time Code Generator

The ptf 3207A-TC generates both amplitude modulated and phase width modulated (DCLS) time codes, including IRIG A, B, E, G, and H and NASA 36 time of day codes, together with pseudo IRIG B count up / count down time codes. The time code generator can be free running, or can be locked to either a GNS or time code source.

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