



ptf

ptf 1208A and ptf 1209A Fiber Optic Distribution



ptf 1208A Optical Transmitter

850nm multi mode fiber

Up to 2 kilometers !



ptf 1209A Optical Receiver

- **Distribution of RF signals from 1kHz to 20MHz**
- **Transmission Distance >2 km**
- **Highly flexible configuration of Transmitter and Receiver**
- **Simple to install and configure**
- **Input and output signal monitoring and alarms**
- **<-90 dBc channel to channel isolation**

The *ptf 1208A* (transmitter) and *ptf 1209A* (receiver) provide a convenient and simple way to transmit high quality RF signals over long distances, without the concerns associated with electrical interference and pick-up.

The *ptf 1208A* accepts an RF input in the range from 1kHz up to greater than 10MHz and provides a combination of 8 local, high isolation, RF distribution outputs and 4 optical transmission outputs for distances up to 2 kilometers.

The *ptf 1209A* accepts an optical input (transmitted from the *ptf 1208A*) and provides 12 local RF outputs, either digital (TTL into 50 ohms) or low noise sine wave signals driving 1V rms into 50 ohms (with the PLL option), or both.

These systems are especially designed to accommodate IRIG B DCLS, 1PPS and other RF signals in the range from 1kHz to 20MHz.

The modular construction allows for a variety of input/output configurations to provide a fully tailored application solution.

Specifications subject to change without notice

200 Corporate Place, Peabody, MA 01960, USA
Tel: (+1) 978 535 4848 Fax: (+1) 978 535 3549 Toll free: 866 ptfinc1www.ptfinc.com



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Specifications

ptf 1208A Optical Transmitter



Inputs

RF Input
 Frequency 1kHz to 20MHz
 Level 0V to 5V (TTL) into 50 ohms
 Connector BNC

Outputs

RF Outputs(8)
 Frequency 1kHz to 20MHz
 Level 0V to 5V (TTL) into 50 ohms
 Connector BNC
 Isolation >-90dB

Optical Outputs(4)
 Frequency 850nm with amplitude modulated square wave
 Modulation 1kHz to 20MHz
 Connector ST

ptf 1209A Optical Receiver



Optical Input
 Frequency 850nm with amplitude modulated square wave from 1kHz to 20MHz
 Level -10dBm to -30dBm
 Connector ST

RF Outputs(12)
 Frequency 1kHz to 20MHz
 Level 0V to 5V (TTL) into 50 ohms
 Connector BNC
 Isolation >-90dB

Feed-through RF output(1)
 Frequency 1kHz to 20MHz
 Level 0V to 5V (TTL) into 50 ohms
 Connector BNC

Environmental/Physical

Input Power
 AC 100 VAC to 265 VAC
 DC(optional) 20 VDC to 70 VDC
 Operating Temp. -35 to 75 deg. C

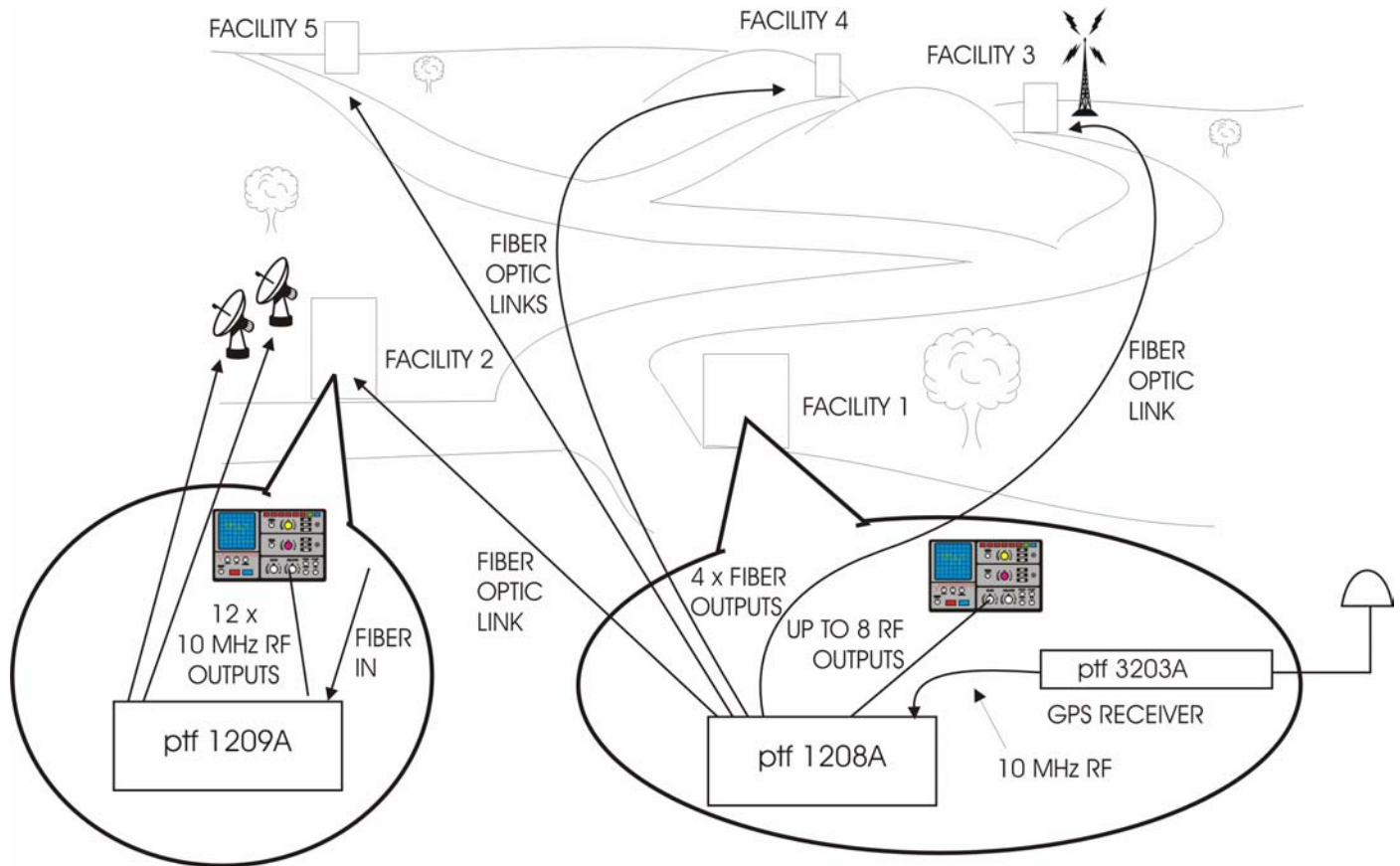
Relative Humidity 0-95%(non-cond.)
 Dimensions 1U x 19" x 12"
 Operating Temp. 0 to 50 deg. C
 Relative Humidity 0-95%(non-cond.)

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Typical Application for the ptf 1208A / ptf 1209A

The advantages of using optical fiber distribution are well known and include elimination of ground loop noise, immunity to EMI/EFI, much longer transmission distances whilst still maintaining signal integrity and performance.

The ptf 1208A / 1209A fiber optic distribution solution provides a simple and convenient way to implement an almost limitless number of distribution configurations in configurable packages designed to meet the most stringent customer requirements.

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