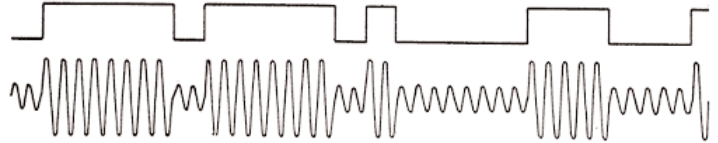




ptf

5203A TYMEGEN TIME CODE GENERATOR

Multiple Input Sources
Master, Slave or GPS Optional Configurations
Accuracy (1PPS): <20ns(GPS)
100/10 Base T Ethernet
Keypad + Bright VF Display(opt)
Remote Control/Monitor, RS 232/Telnet
NTP (optional)



The ptf 5203A optionally combines the precision of GPS disciplined timing (<20ns), Time Code input, or stand-alone time code Master generator. Available oscillator options include TCXO, OCXO or a rubidium atomic source.

Remote access is available via telnet connection, optional NTP over a 10/100 BaseT Ethernet connection, an HTTP web browser interface, and an SNMP interface.

Standard outputs include highly accurate 10MHz RF output, together with IRIG B (am), IRIG B (DCLS), one pulse per second (1PPS), and time print output, providing time in an ASCII format over an RS232 port.

Additional capability includes selectable frequency outputs, pulse outputs including 1PPM, and phase measurement of an incoming 1PPS signal.

Remote monitoring and control is available over both RS232 and Telenet interfaces, backed by a comprehensive help menu.

Operation

The internally generated 1PPS is phase locked to the selected incoming source (GPS or IRIG B DCLS Time Code) or can be free running in the "Master" mode. The synchronized IRIG B output provides amplitude modulated (AM) IRIG B encoded information on a modulated 1kHz carrier, and DC level shift (DCLS) format at TTL levels.

Also available is a 10MHz RF sine wave output, an "on time" 1PPS output, and configurable pulse frequency outputs including T1 (1544 kHz) and E1 (2048 kHz) phase locked to the incoming signal. Optional distribution modules provide expansion to give multiple outputs of any of the available signals.

For long transmission distances or electrically noisy environments optical fiber Receiver/Transmitter options are available

Specifications subject to change without notice



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SPECIFICATIONS

Electrical

Input/Output Connections

RF	10MHz sine wave 13 dBm (1V rms nominal)
1PPS	5V CMOS into 50 ohms
Time Code	IRIG B am to IEEE1344

RS232	Control/Monitor
RS232	Time Output

Ethernet Connections

Telnet	
HTTP	
NTP(optional)	v1, v2, v3, SNTP

Accuracy(Locked to GPS)

10MHz	<2E-12
1PPS	<100ns wrt UTC
NTP	<10ms (typical)

10MHz

Stability (Allan Deviation)

1s	2E-10
10s	2E-10
100s	1E-9

Phase Noise

	TCXO	OCXO
1Hz	-72dBc	-95 dBc
10Hz	-93dBc	-125dBc
100Hz	-115dBc	-135 dBc
1000Hz	-126dBc	-145 dBc

Front Panel

Indicators

Fault	Red LED
Locked	Green LED
Power	Green LED

Display/Keypad(optional)

Vacuum Fluorescent	High Brightness
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Keypad(Membrane type)	Alpha/Numeric
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Control/Monitor Features

Ethernet	SNMP HTTP
RS 232	Console interface
Time Print Port(opt)	DOY HH:MM:SS

Environmental/Physical

Power Requirements	100 - 250 VAC <10W
Dimensions	1U x 19" x 12"
Operating Temp.	0 to 50 deg. C
Relative Humidity	0-95% (non-cond.)

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