



ptf



3203ASAASM SOLUTION

GPS Tracking: 12 parallel channel
TTFF: <100s (cold start)
Accuracy (1PPS): <120ns
100/10 Base T Ethernet
NTP, Telnet
Monitor/Control i/f

Alarm indicator and output
1MHz, 5MHz o/p options
SAASM receiver not include
Rubidium and OCXO options
Available in 1U(3203A) and 2U(3204A)

The ptf 3203A SAASM solution is a unique configuration that couples the latest in SAASM capability to a full featured time and frequency GPS unit.

Performance is application tailored with local oscillator options including rubidium(standard), and OCXO.

The ptf 3203A SAASM solution adds a special interface to allow the unit to operate with the highly popular Rockwell Collins DAGRTM handheld SAASM receiver (available separately from Rockwell Collins to authorized users), allowing the unit to be used in critical field applications. Available in both 1U (3203A) and 2U (3204A) versions, the units can be configured as a high performance frequency standard, a comprehensive time standard, or both.

In standard configuration, the unit is equipped with 10MHz, 1PPS and IRIG B(am) outputs. Additional options for other output frequencies are also available. Internal RF distribution can be fitted to provide up to 10(3203A) or 20(3204A)10MHz outputs .

In addition to the standard 1PPS and IRIG B outputs the unit provides NTP. The 1PPS output is accurate within <120ns (1 sigma) of UTC(USNO).

Specifications subject to change without notice



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3203A SPECIFICATIONS

ROCKWELL COLLINS DAGR (DEFENSE ADVANCED GPS RECEIVER). SEE SEPARATE DAGR DATA SHEET

Electrical

Front Panel Display Vacuum Fluorescent

RF Outputs*

10MHz sine wave 1V rms into 50 ohms

* Standard configuration offers 10MHz sine wave, IRIG B(am) and 1PPS outputs

Digital Outputs

1PPS 5V CMOS into 50 ohms

Prog 5V CMOS into 50 ohms

Pulse Rates

(1PPS to 10MPPS)

100/10 Ethernet i/f RJ-45 Connector
Telnet monitoring/configuration/control
HTTP configuration control
DHCP TCP/IP auto configuration
NTP

Digital Input

1PPS (DAGR interface)

Serial Interface

RS232 Control/Monitor(DB9)

RS232(opt) Time Output(DB9)

Timing Outputs

IRIG B(am) 3v p-p into 600 ohm

IRIG B(DCLS) 5V into 50 ohm

IEEE 1344 compliant

Accuracy

10MHz <2E-12 (Locked to GPS)

1PPS <120ns wrt UTC (1 sigma)

NTP <10ms (typical)

Stability (Allan Deviation)

		OEXO		RUB
100s		5E-11		3E-11
1000s		2E-11		2E-11
10000s		2E-12		3E-12

Aging

		OEXO		RUB
1 day		1E-9		1.7E-12
1 month				5E-11
1 year				5E-10

Phase Noise(SSB)

		OEXO		RUB (H)
1Hz		-94dBc		-90dBc
10Hz		-125dBc		-135dBc
100Hz		-155dBc		-140dBc
1000Hz		-162dBc		-150dBc
10kHz		-162dBc		-150dBc

Spurious (OEXO option)

Offset from carrier

1kHz to 200kHz <-100dBc

200kHz to 1MHz <-80dBc

1MHz to 10MHz <-80dBc

Front Panel

Indicators

Fault Amber LED

Lock Green LED

Power Green LED

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SPECIFICATIONS(CONT'D.)

3203ASAASM SOLUTION

Environmental/Physical

Temperature

Operating	Unit	0 deg C to 50 deg C
	Ant	-40 to +85 deg C
Storage	Unit	-20 to 70 deg C
	Ant	-40 to 100 deg C
Humidity (non-condensing)	unit	0-95% RH
	Ant	Mil-STD-810E

Configuration Options

Option	Description
MOPS	Multi RF outputs
RF01	1MHz sine x 4
RF05	5MHz sine x 4
RF10	10MHz sine x 4
RF100	100MHz sine x 4
TIME	IRIG B(am)x 4
PULS	Pulse Distr.x 4
OVEN	Hi Perf. OCXO
DISP	Front panel keypad/Display
DCPS	DC power Supply

Power Requirements

AC input (+/-15%)	90-264 VAC
DC input(opt)	18V to 72V DC

Dimensions

3203A	1Ux19"x12"
3204A	2Ux19"x12"
Relative Humidity	0-95% (non-cond.)



Front View



Rear View

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