

SPECIFICATIONS

Frequency Specifications

	Value	Units
Frequency range	20-160	MHz
Frequency resolution (1)	0.1	Hz
Frequency stability	±2	ppm/deg C
Frequency preload time (2)	<8	µs
Frequency toggle time (3)	<80	ns

Amplitude Specifications

	Value	Units
RF output power, nominal for all channels on	3.2	Watt
RF output power, per channel	0.4	Watt
Modulation bandwidth (4)	>2	MHz
Dynamic range (5)	>35	dBc
Intermodulation (6)	>41	dB
Spurious	>45	dBc
Signal to noise ratio (7)	>75	dB

Interfaces

	Value	Units
RF output impedance	50	Ohms
Amplitude modulation input level	0-10	Volts
FSK modulation input level	3.3	Volts
Blanking input	3.3	Volts
Digital controls	ASC II	
Sensor input	±3.3	Volts
Power input, from DC supply	24@2A	Volts

General Features

- 8 channels, combined as composite output.
- On-board composite output power measurement.
- Independent linear amplitude modulation on each channel.
- Common blanking signal for all channels.
- Independent frequency shift modulation on each channel.
- Robust command set.
- Built in Network Protocols (i.e. Point to Point Protocol PPP, Link Control Protocol LCP, Password Authentication Protocol PAP, Internet Control Message Protocol, etc.)
- Control Voltage Levels: RS232.

Comments:

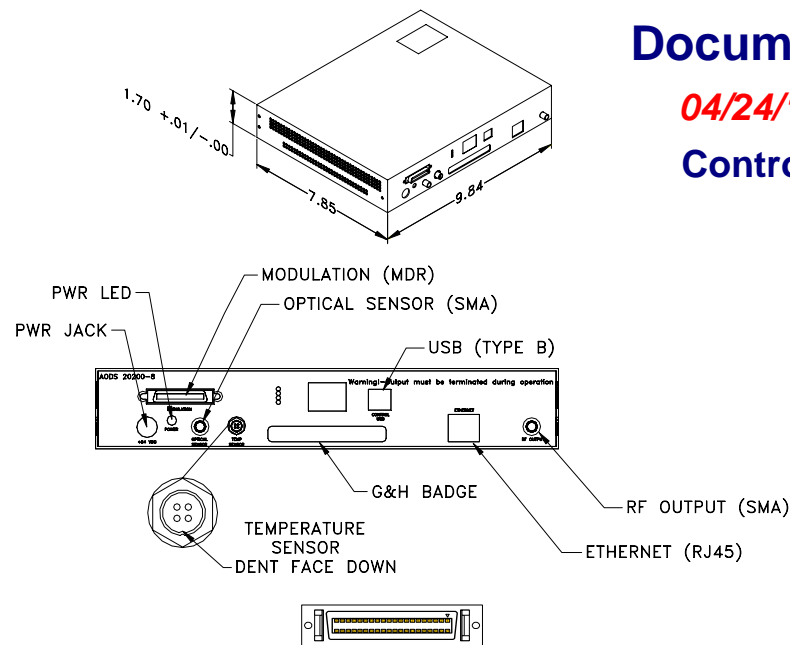
- Actually 0.0931 Hz, closest approximation to set frequency will be chosen.
 - Typically 1-8 µs, each frequency requires 32 bits, plus a starting RAM address.
 - Direct switch mode to one of three preset frequency.
 - Measured at -3 dB point, DC coupled.
 - 20-160 MHz.
 - 2 tone test, 100 MHz + 105 MHz, each of 125 mW output
 - 1 MHz measurement bandwidth, 125 mW reference tone.
 - Reference Outline Drawing 97-03926-12-15.
- Code: 160T2-8SAR-24-3.2B

Ordering Information:

XSOptix
 Email orders to: sales@xsoptix.com
 Fax orders to: 800-878-7282

800 Village Walk #316
 Guilford, CT 06437
 Ph: 203-401-8093

OUTLINE DRAWING



MDR connector

Modulation and FSK/Blank Connector Pin out

Pin	Function	Direction	Description	Pin	Function	Direction
1	VCC24	-		21	VCC24	-
2	VCC24	-		22	GND	-
3	GRD	-		23	FSK0	-
4	GND	-		24	FSK1	-
5	GND	-		25	FSK2	-
6	GND	-		26	FSK3	-
7	GND	-		27	FSK4	-
8	GND	-		28	FSK5	-
9	GND	-		29	FSK6	-
10	GND	-		30	FSK7	-
11	GND	-		31	BLANK	-
12	GND	-		32	GRD	-
13	MOD 0	-		33	MOD 0+	-
14	MOD 1-	-		34	MOD 1+	-
15	MOD 2-	-		35	MOD 2+	-
16	MOD 3-	-		36	MOD 3+	-
17	MOD 4-	-		37	MOD 4+	-
18	MOD 5-	-		38	MOD 5+	-
19	MOD 6-	-		39	MOD 6+	-
20	MOD 7-	-		40	MOD 7+	-

Document

04/24/13

Control

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	M.Phung 4/17/2013			
MATERIAL:	CHK				
FINISH:	APP		AODS Synth DDS 8 CH G&H ANALOG PLL=400MHZ		
	APP		PART NUMBER: 97-03926-12	REV: A	SHEET 1 OF 1