

Time & Frequency Distribution Amplifier

AD40A-01*

Inputs	
1PPS, Have Quick & GPS Status	RS-422
10MHz	Sine wave / +2 to +3dBm
DC Power	See description at Power Supply section

Outputs (10 outputs of each)													
1PPS	ICD-GPS-060 / 100Ω												
1PPS	RS-422												
Have Quick	ICD-GPS-060 / 100kΩ												
Have Quick	RS-422												
GPS Status	RS-422												
10 MHz	<p>Sine Wave / 50Ω / +2 to +3dBm</p> <table border="1"> <thead> <tr> <th>Offset</th><th>Phase Noise (dBc/Hz)</th></tr> </thead> <tbody> <tr> <td>@100Hz</td><td>-100</td></tr> <tr> <td>@1kHz</td><td>-110</td></tr> <tr> <td>@10kHz</td><td>-120</td></tr> <tr> <td>@60kHz</td><td>-130</td></tr> <tr> <td>@100kHz</td><td>-135</td></tr> </tbody> </table> <p>Harmonics: <-40dBc Spurious: <-80dBc * Spectral Purity and Signal Level of the outputs depends on Spectral Purity and Signal Level of input.</p>	Offset	Phase Noise (dBc/Hz)	@100Hz	-100	@1kHz	-110	@10kHz	-120	@60kHz	-130	@100kHz	-135
Offset	Phase Noise (dBc/Hz)												
@100Hz	-100												
@1kHz	-110												
@10kHz	-120												
@60kHz	-130												
@100kHz	-135												

Front Panel LED's
Power, GPS Status, 1PPS Input, Have Quick Input, 1PPS Output, Have Quick Output

DC Power Supply	
Operating Voltage	18 - 32 Vdc (28Vdc Typ)
Power	<10W

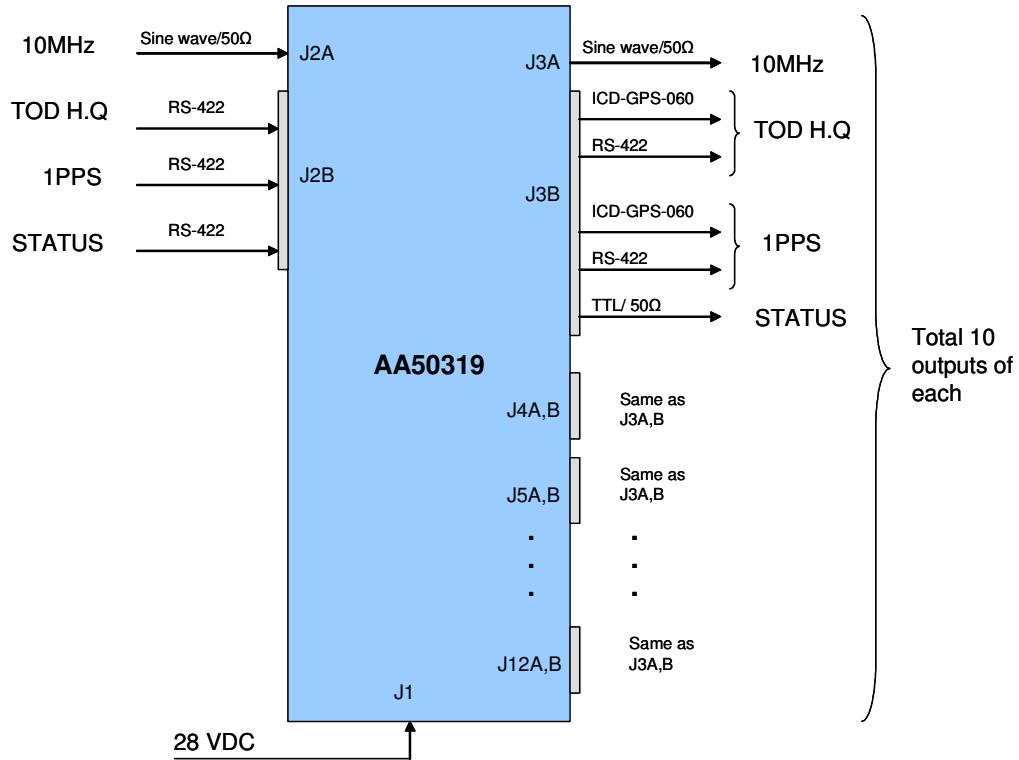
Environmental	
Temperature operating	0 °C to +50 °C
Temperature storage	-21 °C to +71 °C
Humidity	Up to 95% at 35 °C, non-condensed
Vibration	MIL-STD-810D, Method 514.3
Shock	MIL-STD-810C, Method 516.2, Proc. I (7.5g / 30mSec / Half sine)
Bench Handling	MIL-STD-810C, Method 516.2, Proc. V

Mechanical	
Weight	<4 kg
Dimensions	Width 19 " / Height 3.5" (2U) / Depth 14"

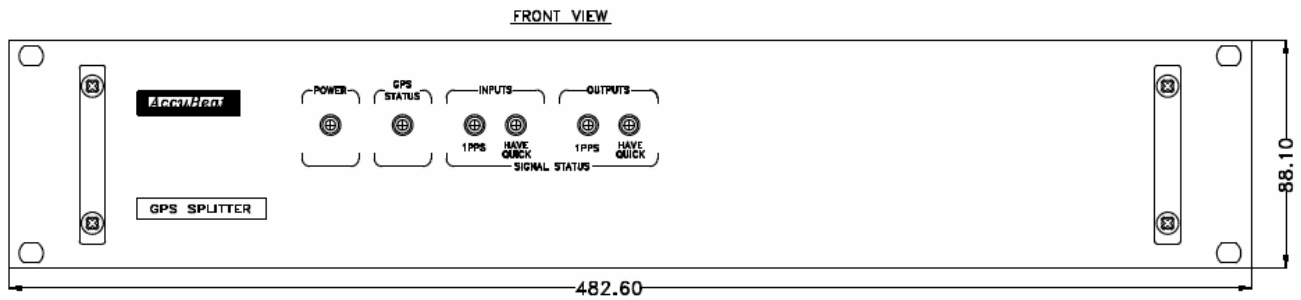
All specs are at room temperature, quiescent conditions, sea level ambient unless otherwise specified

* Used to be called AA50319

Input/ Outputs



Mechanical ICD

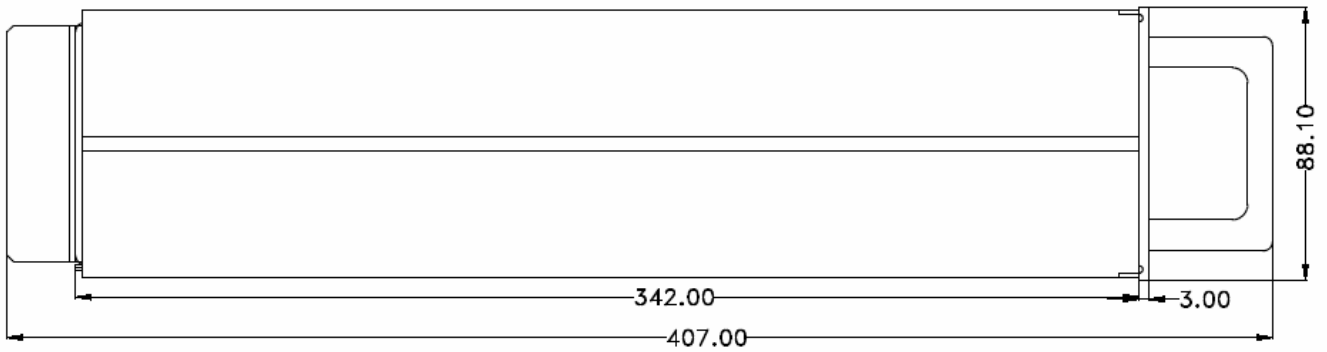


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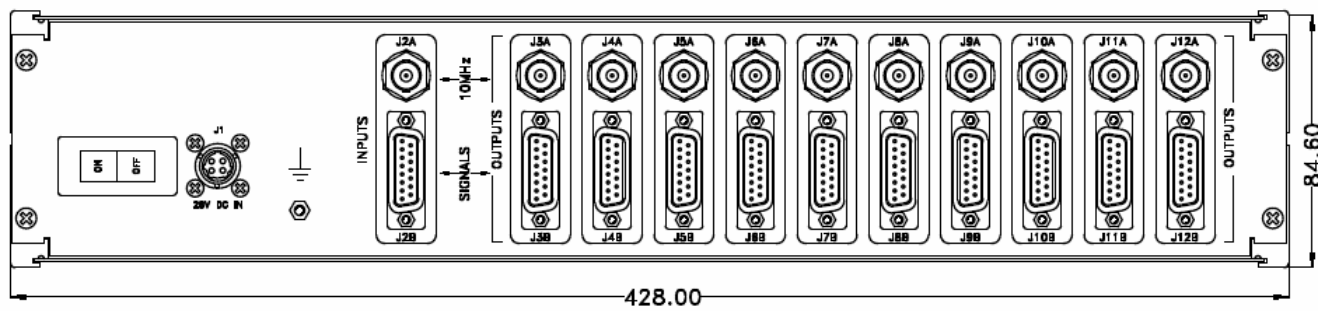
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Mechanical ICD (continue)

SIDE VIEW



BACK VIEW



HOW TO ORDER

OPTIONS NAME	AccuBeat P/N:	Note
10 MHz output level +8 to +10dBm	By description	
10 MHz output jitter < 6 ps	By description	

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