

Specification	AXDA9100	Rev.: 1	Date: 2020-02-24
Type:	1PPS Distribution Amplifier in 19" rack (1 HU)		

Features:

- 1PPS pulse distribution
- Up to 16 outputs
- TTL/HCMOS Level, 50 Ohm input & output impedance
- Best suited to distribute AXTAL 9000 Series references
- Slim 19" rack with 1 HU

Parameter	min.	typ.	max.	Unit	Condition
Nominal frequency	1PPS				
RF Input					
Number of inputs	1				
Signal waveform	HCMOS/TTL				
Input impedance	50			Ω	
Input level	2.8			V _{pp}	
RF outputs					
RF output ports	4, 8, 16				Option 1
Signal waveform	HCMOS/TTL				
Load R _L	50			Ω	
Output level per channel	3	4		V _{pp}	
Rise & decay time			5	ns	
Pulse delay between input and output		10	50	ns	
Pulse width	Same as input				
1 PPS indicator	LED at front panel				
AC Supply voltage V_s	100	230	240	V	
AC Supply input frequency	50		60	Hz	
Power consumption			20	W	
Operating temperature range	-10		+60	°C	
Enclosure (see drawing) (WxDxH)	483x250x44			mm	
RF Connectors	BNC female				@ Rear plate
Weight		4		kg	

Notes:

1. Terminology and test conditions are according to IEC60679-1 and MIL-PRF-55310, unless otherwise stated

Absolute Maximum Ratings

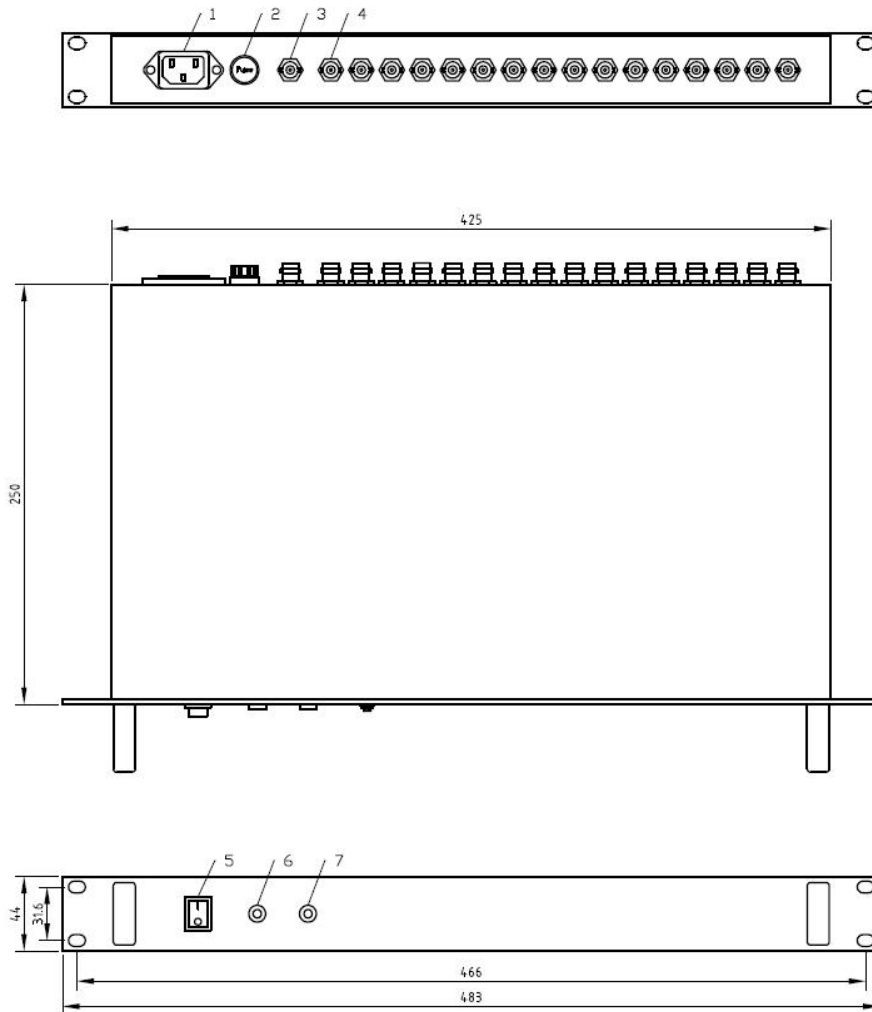
Parameter	min.	max.	Unit	Condition
AC Supply Voltage V _s	90	260	V	
AC Supply input frequency	47	63	Hz	
AC Supply input current		2	A	Fuse accessible at rear plate
Maximum input level	-0.5	+6	V	
Load R _L	25	∞	Ω	No damage
Storage Temperature	-20	+70	°C	

Ordering Code

Model	Option 1 [Output ports]	Revision	Frequency
AXDA9100	4, 8, 16	Rev.1	1PPS

Example: AXDA9100-16_Rev.1 – 1PPS

Enclosure drawing



Connections and operation

#	Panel	Symbol	Function
1	Rear	POWER IN	AC Supply Input (IEC 60320-1 / C14)
2		FUSE	2 A Slow 5x20 mm Fuse
3		IN	RF input
4		OUT	RF outputs 4...16*
5	Front	POWER SWITCH	Power Switch ON/OFF
6		POWER ON	LED – Power ON Indicator
7		PPS	LED – 1 PPS Indicator

Handling & Testing

Parameter	Procedure / Test condition
Sinusoidal vibration	max. 0.15 mm <10 Hz, 1 g at 10~2000 Hz
Random vibration	max. 0.001 g ² /Hz, 10~2000 Hz
Mechanical shock	max. 10 g, 11 ms half sine
Handling and Testing	Careful handling.
DGUV Requirement 3 Tested	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
RoHS-Compliant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Data sheet is for information purposes only and may be subject to modifications or may be discontinued without notice.

Revision History

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	27.11.2019	First issue	HH	HH
1	D1	24.02.2020	Min. input level corrected, typical delay added	HH	HH