



**ISDD**  
Instrumentation  
Service  
Development

**E**lectronics **U**nit

**SSI2V**



## DEVICE DATASHEET

### Description

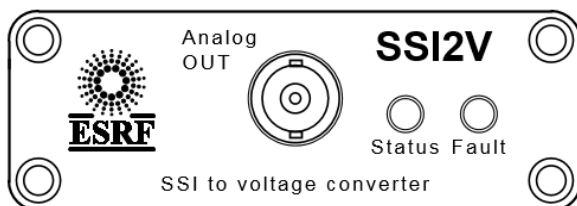
SSI2V is an electronic module that convert an incremental or absolute position signal in an analog voltage signal. You can choose for a differential or single ended output signal depending of your application.

Typically, SSI2V is used to drive the auxiliary input of a piezo amplifier.

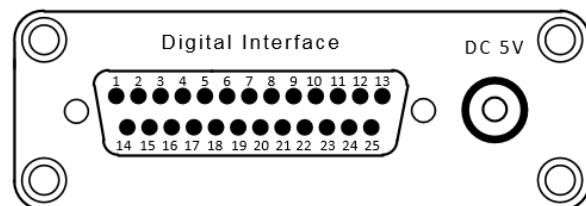
### Functionalities

- IcePAP DAC interface.
- Powered by a 5V DC auxiliary supply
- 20 bits DAC resolution
- Quadrature signal understanding
- Absolute position signal understanding
- Set zero function on the quadrature mode
- None volatile configuration selectable thanks to the switch inside of the device

### Front and Rear Panels



Front Panel



Rear Panel

# Specifications

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Parameter	Value	Unit	Comments
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## Voltage Output

Connector	BNC Connector		
Voltage output range	±10.48 or 10.48	V	Selectable
Maximum output range	20.96	V	
1 LSB	20 or 10	µV	According to the output range

## Quadrature Input

Phase A, B electrical levels	RS-422 inputs		Differential signals
Maximum input frequency	35	Mhz	

## Absolute Input

Clock output electrical level	RS422 output		Differential signals
Input data electrical level	RS422 input		Differential signals
Number of bits	20		
Clock frequency	500	Khz	
Tram frequency	10	Khz	
Protocols embedded	SSI, BISS		Selectable

## Commands Input

Number of commands input	3		Enable, SetZ, InfoC
Type of input	Schmitt Trigger		

## Power

DC Auxiliary supply voltage	5	V	+/- 10 %
Power consumption	1.5	W	

## Physical

Dimensions (h x w x l)	27 x 78 x 120	mm	
Weight	0.2	kg	