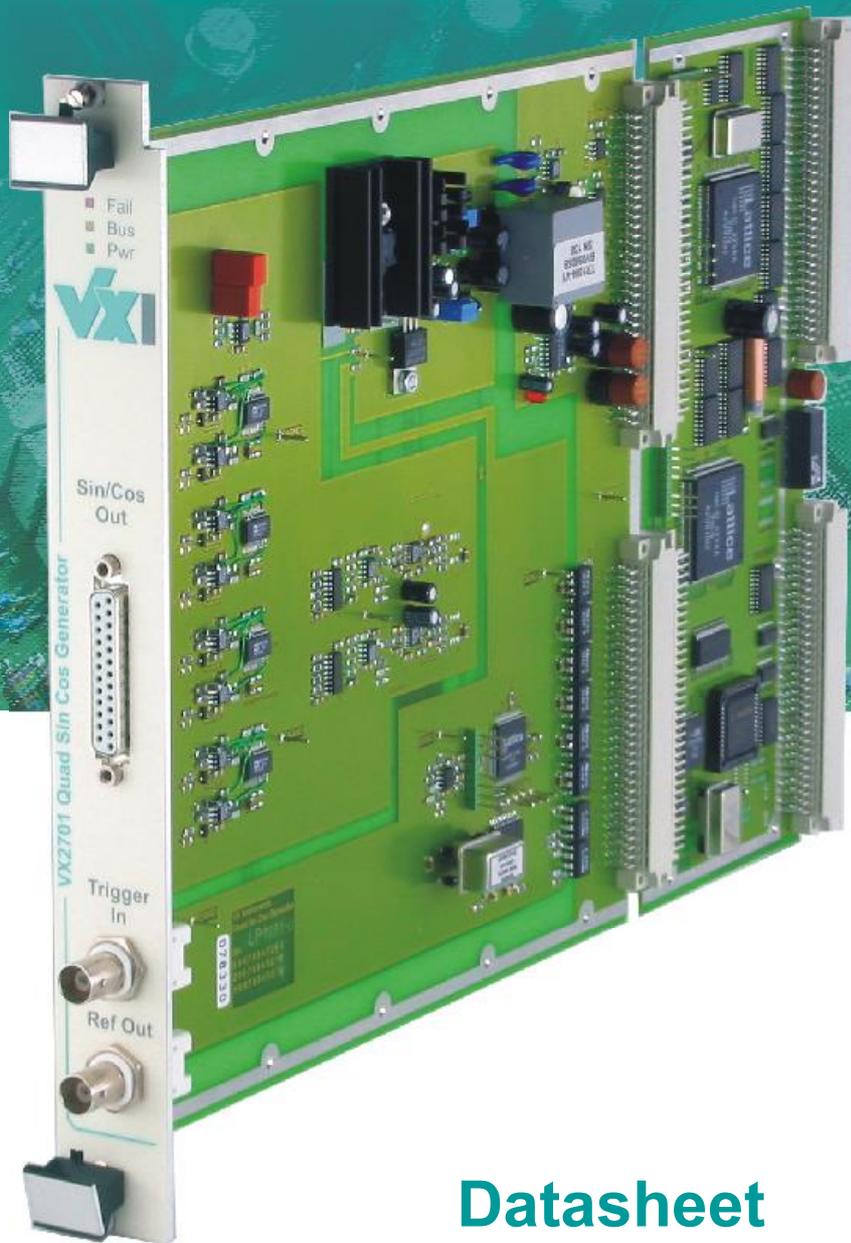


*the test solutions provider*



## VX2701 Quad Sine Cosine Generator



### Datasheet

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## **Description**

The VX2701QSG is a register based, single slot, VXI-C-size device.

It has 4 channels providing a sine and cosine wave. The phase of the cosine wave is user selectable. The DC and AC voltage of the 4 sine and cosine outputs can be programmed independent. A trigger output gives the zero crossing of the sine.

All calibration data are stored into EEPROM. The calibration is done by software.

The internal microprocessor is equipped with a flash memory. So the firmware can be updated via the VXI-Bus. With this feature new measurement functions can be downloaded to the flash memory.

## **Features**

- Low distortion sine/cosine generation with selectable frequency and cosine phase
- Output voltages up to 10Vp
- Output frequency up to 100kHz
- Precise sine zero crossing trigger output with selectable delay
- 4 Outputs sine/cosine with independent AC and DC setting

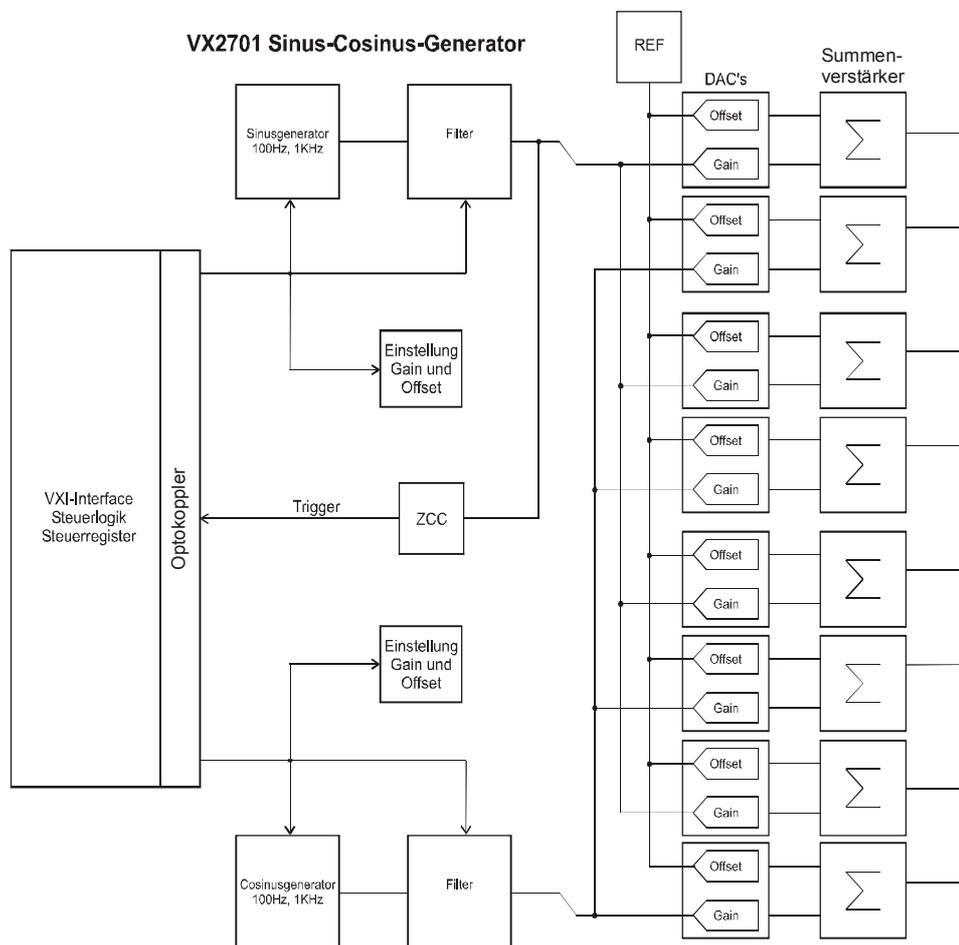
**Technical Data**

The following specifications are valid after a warm up time of 60 minutes at an ambient temperature in the following range:            Temperature of calibration +/- 5°C.

**General Operating Specifications**

Operation Temperature Range	0 – 50°C
Calibration Temperature Range	18 – 30°C
Input Connection	High-Voltage SUB-D connector
Weight	Approx. 2kg
Dimensions	VXI-C-size, single slot
Max. Voltage between any Front Connector Pin and Earth	1000Vp

**Block diagram**



**Outputs**

Voltage Resolution	16 Bit
Max. Output Range DC	-10V ... +10V
Max. Output Range AC	-10Vp ... + 10Vp
Sum of DC and AC	-10Vp ... + 10Vp
Output Resistance	50 Ohm
Max. Output Current	+/- 10mA <sub>p</sub>

**Cosine Phase**

Phase Resolution	1 Degree
Range	-90° ... +90°