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Find the *VX Instruments VX7340* at our website: ***Click HERE***

VXI Instruments®
the test solutions provider



Fully isolated

- 2 channels up 500Vpp
- 40MS/sec, up to 16 Bit
- up to 40MHz bandwidth

VX7342 High Res. Digitizer Family

VXI Instruments®
the test solutions provider

Features

- 2 independent channels
- Input voltages up to 500V_{pp}
- 40MS/sec. with up to 16 Bit resolution
- Up to 40MHz bandwidth
- Fully isolated design / floating inputs
- High common mode rejection
- Designed for high througput testing
- Additional external analog trigger option
- Many configuration possibilities according to trigger and sampling

Product information:

The VX7342 is a fully isolated high-speed digitizer for high performance measurements.

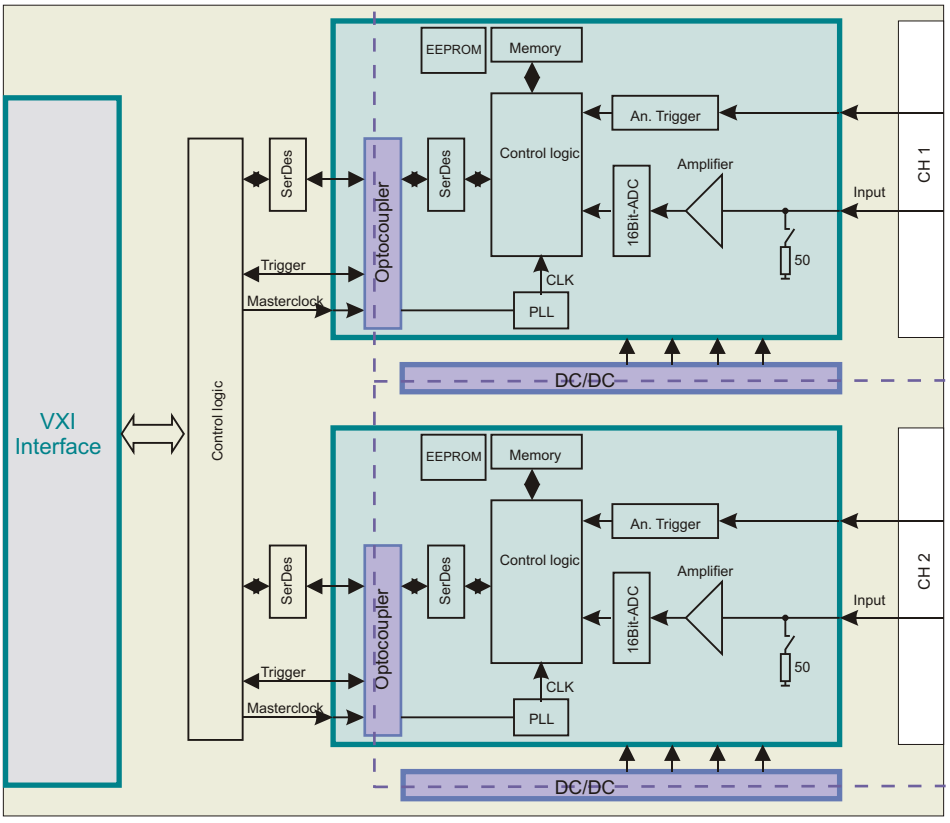
Each channel is fully isolated. This results in a very high common mode rejection ratio (CMRR) compared to differential inputs. It allows floating low level signals to be measured with a very high accuracy and a maximum of resolution. This design of the VX7342 guarantees highest quality measurements.

The VX7342 is a C-size single slot VXI module, designed for high throughput testing.

The data acquisition may be triggered from the input itself or external inputs (optional) having programmable thresholds. Acquired data can be pre-trigger, post-trigger, or anywhere in between, with a programmable sample counter that controls the number of data points. An interrupt is issued when measurement is completed.

The maximum voltage for each signal input is 60V ($120V_{pp}$). With the option IN250V the range can be extended to 250V ($500V_{pp}$). This allows high voltage signals to be measured without signal conditioning.

The instrument calibration is done digital and fully automatic. The calibration data are stored in onboard EEPROM.



All product data[1] are specified for an ambient temperature of 23°C ±5°C, after 1 hour warm-up time!

General	Specification	Comment
Module size	VXI: 1 slot "C"-Size	
Module weight	< 1.8kg	
Front connector type	BNC	
Operating temperature range	0...40ºC	
Operating Altitude	up to 2000 m	
Humidity	to 90% relative humidity below 30°C to 45% relative humidity up to 50°C	
Storage Temperature Range	-25...70°C	
Electrical safety	according EN61010-1	
Isolation Output to PE	250V CAT I, Pollution Degree 2	

Acquisition	Specification	Comment
Maximum sample rate	40MS/sec	
Bandwidth	20MHz, 40MHz with option DBW	
Vertical resolution	14 bit, 16 bit with option RES16B	
Sampling times	50ns, 100ns, 250ns, 500ns, 1µs, 2.5µs, 5µs, 10µs, 25µs, 50µs, 100µs, 250µs, 500µs, 1ms, 2.5ms, 5ms, 10ms, 25ms, 50ms, 100ms, 250ms, 500ms, 1s, 2.5s, 5s, 10s	software selectable
Input impedance	1MOhm // < 20pF nom., 50Ohm	software selectable
Input coupling	DC	
Maximum input voltage[2]	1MOhm: 60VDC, 250VDC with option IN250V 50Ohm: 4Vp	
Input ranges	50Ohm: 250mV, 500mV, 1V, 2V, 4V, 1MOhm: 250mV, 500mV, 1V, 2V, 4V, 8V, 16V, 32V, 64V, 128V, 250V	
DC accuracy[3]	250mV, 500mV: 0.3% of input +2mV others: 0.15% of input + 0.1% of f.s.	
Filter	30kHz, 100kHz, 300kHz, 1MHz	software selectable; filter 1st order
Waveform memory	1MSample (2 MByte)	

Time Base	Specification	Comment
Accuracy	50ppm, 1ppm with option TCXO	in operating temperature range
Aging per year	5ppm, 1ppm with option TCXO	

[1] Product specification and description in this document are subject to change without notice!
[2] The sum of common mode and differential input voltage may not exceed 60V (250V with option IN250V)
[3] DC accuracy specified for an average value of 100 samples with a sample rate of 5kS/sec performed 24h after offset correction

Trigger System	Specification	Comment
Trigger from		
Internal		CH1 or CH2; each with his own trigger source
External		Input voltage range ±10V
Software		Via software command
VXI-TTL trigger		Trigger 0..7 at the PXI backplane
Modes		
Pre-trigger	0...100% of sampling depth	Trigger is armed after presamples are capured
Post-trigger		Number of samples captured after trigger event
Continous		done by software
Level resolution	12 Bit	
Level accuracy	0.6% + 0.3%	±(of programmed value + of full range)
Trigger slope	positive or negative	
Trigger hysteresis	0 ... 100% of signal range	programmable via software
Trigger coupling	DC	

Common Mode Rejection	Specification	Comment
CMMR DC	>90dB	Range 1V, 5kS/sec, average of 100 samples, Common Mode DC Voltage 150V, Input terminated by 50 Ohm
CMMR 50Hz	80dB typical	Range 0.25V, 5kS/sec, average of 100 samples, Common Mode DC Voltage 150V, Input terminated by 50 Ohm

Calibration:
Software calibration, calibration interval 1 year

Quality:
All VX Instruments products are designed and built with ISO-9001 certified quality at VX Instruments facility in Landshut, Germany.

Warranty Period:
Two years

Instrument Drivers:
The instrument integration is simplified with VXI plug&play drivers. A soft front panel is included to control and verify the instrument without writing a user program.

Ordering Option	Comment
IN250V	500V_{pp} Inputs
RES16B	16 Bit resolution
DBW	Double Bandwidth
EXTTRIG	Ext. analog trigger
TCXO	TCXO Oscillator

Family related VXI Digitizers	
VX7340	20MS / 16Bit
VX7342	40MS / 16Bit
VX7344	100MS / 16Bit

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