



C-series Modules

Product Overview

Contents

Hydraulic Drive Control	3
SSI Sensors Connection	4
Vibration and Acoustic Signal Input	5
Output Voltage Module	6

MThe modules are designed for connection to the CompactRIO platform

US 9566 Module

US 9566 has one bridge channel for strain gauges, two digital output channels 24V, two digital output channels 24V, one analog output ±10V, and one digital channel with SSI.

The module is designed to control an electro-hydraulic actuator. It offers a combination of analog and digital channels for load and displacement sensors. The SSI interface used by the displacement sensor allows receiving a feedback signal for FPGA processing.

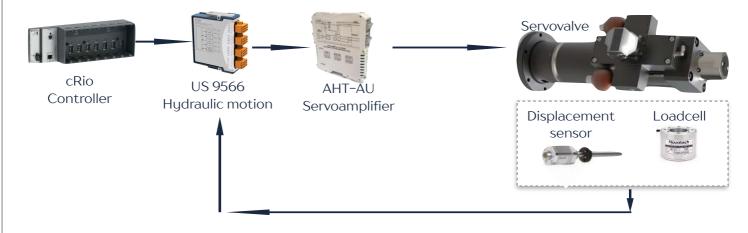
- ✓ Strain gauging channel
- ✓ Analog outputs ±10V
- ✓ SSI channel
- ✓ 2xDI/2xDO

Specification

Electric	
Supply voltage	1830 V
Input	
Strain gauging	24bit/50ksp
SSI I/O type	RS422
2xDI	1830V
Outputs	
analog	±10V/16bit
2xDO	1830V
Protection	
	IP40
Temperature	
Operating temperature	-20+60° C
Connection	Plug-in type
Wired	AWG 2820



Servoactuator



US 9890 Module

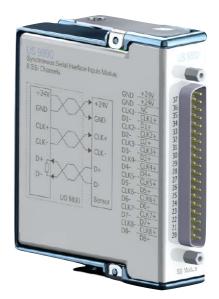
US 9890 allows an addition of 8 SSI sensors to the CompactRIO system.

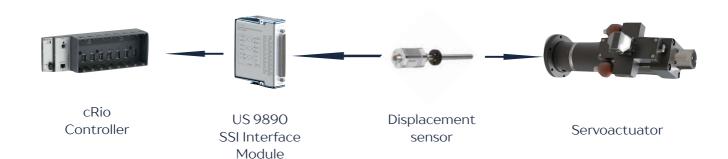
SSI interface is used by displacement sensor and ✓SSI operation mode setting allows receiving feedback signal for processing by √Adjusted data transfer speed controller. After the module sending a clock signal to ✓Adjusting of pause time between transfer a sensor, the module receives data and transmit it to the CompactRIO controller.

of two measurement results

Specification

External power supply	1830 V	
Input signal	diff.couple (RS422)	
Output signal	diff.couple (RS422)	
Data width from the sensor	13, 21, 25 bit	
Data transfer speed	125, 250, 500 kHz , 1	
	MHz	
Delay	16 µs, 32 µs, 48 µs, 64 µs	
Protection	IP 40	
Operating temperature	-40+70° C	
Connection module	DSUB-37	





US 9254 Module

Vibroacoustic module US 9254 is designed to connect sensors with IEPE signals. US 9254 has a high speed of conversion, high resolution, and low noise level.

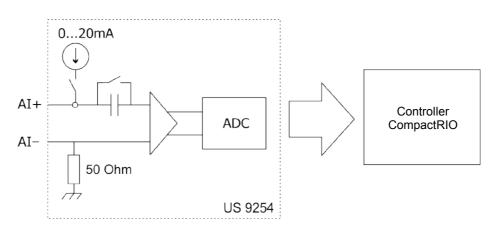
It provides a wide dynamic range and software-con- √1 differential analog input channel trolled isolation of alternative and direct current cir- √signal receipt from TEDs sensors cuits as well as an IEPE sensors signals alignment. Every channel is fitted with a filter for oversampling vprogrammable DC source protection, automatically adjusting to an actual √protective resistor 50 Ohm sample rate.

- √ signal measurement from IEPE sensors

Specification

Number of channels	1	
Channel resolution	24 bit	
Analog input	± 10 V	
Sampling rate	32256 kSPS	
Band pass	20 kHz	
Dynamic range	> 100dB Random > 125dB Sine	
Noise level	<10 µVrms noise	
Protection	IP 40	
Connector type	BNC	
Operating temperature	-40+70° C	





US 9264 Module

US 9264 vibroacoustic module is a two-channel analog output ±10V module intended to generate dynamic signals for audio components and provide excitations for strength tests.

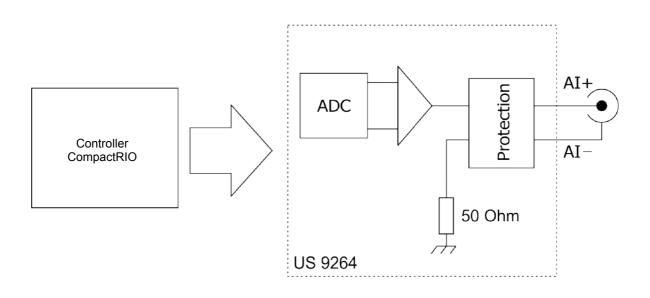
The module is a generator of instrument classes dynamic signals for audio components test and power $\checkmark 2$ differential analog output channels supply of sensors during structural tests. Fast sweep and reprograming ensure repeatability of √short-circuit protection measure results and reduced test duration.

- ✓ overvoltage protection

Specification

Number of channels	2
Channel resolution	24 bit
Sampling rate	51,2 kS/s
Band pass	23 kHz
Analog output	± 10V
Protection	IP40
Connector type	mini-XLR
Operating temperature	-40 70 ° C









+ 41 21 552 12 64



<u>contact@urartu.aero</u>



www.urartu.com

