



C-series Modules

Product Overview

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

SSI Sensors Connection

US 9890 Module

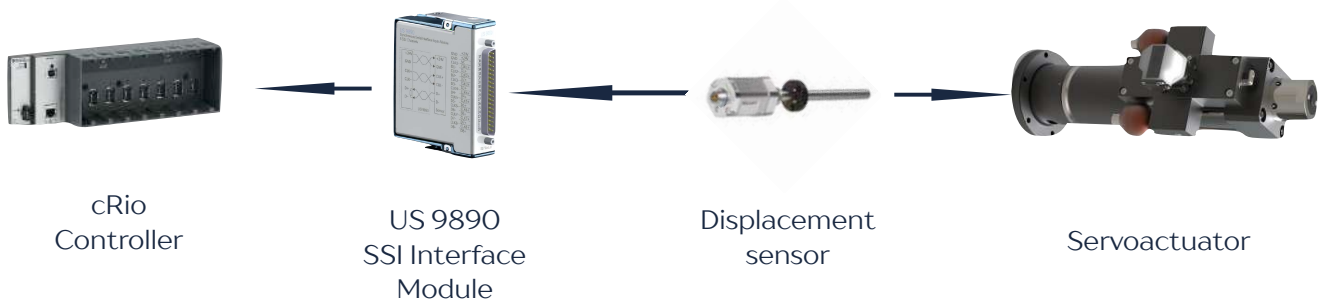
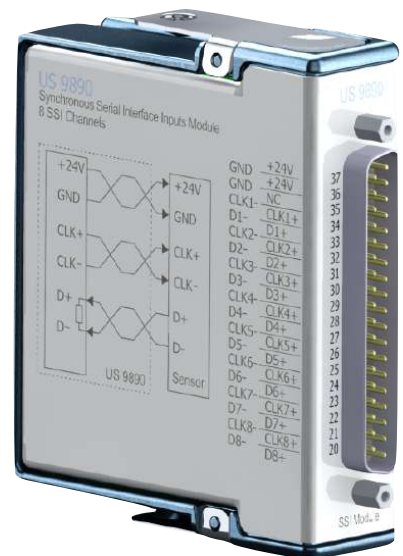
US 9890 allows an addition of 8 SSI sensors to the CompactRIO system.

SSI interface is used by displacement sensor and allows receiving feedback signal for processing by controller. After the module sending a clock signal to a sensor, the module receives data and transmit it to the CompactRIO controller.

- ✓ SSI operation mode setting
- ✓ Adjusted data transfer speed
- ✓ Adjusting of pause time between transfer of two measurement results

Specification

| | |
|----------------------------|----------------------------|
| External power supply | 18...30 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 |



Vibration and Acoustic Signal Input

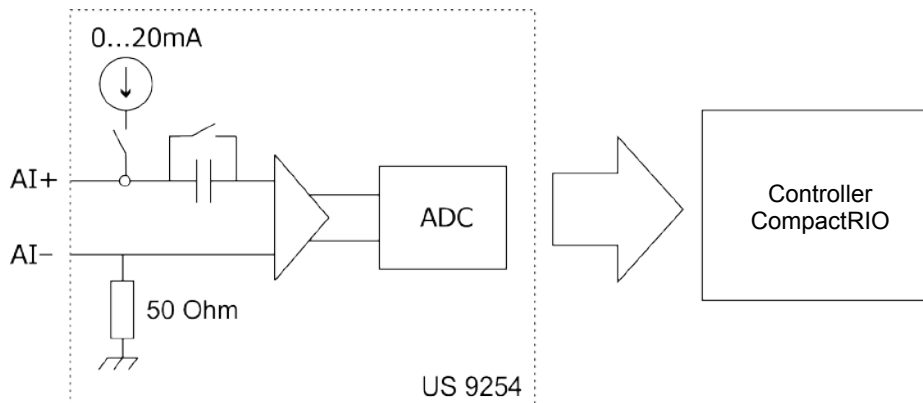
US 9254 Module

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-controlled isolation of alternative and direct current circuits as well as an IEPE sensors signals alignment.
- Every channel is fitted with a filter for oversampling protection, automatically adjusting to an actual sample rate.
- ✓ 1 differential analog input channel
 - ✓ signal receipt from TEDs sensors
 - ✓ signal measurement from IEPE sensors
 - ✓ programmable DC source
 - ✓ protective resistor 50 Ohm

Specification

| | |
|-----------------------|--------------------------------|
| Number of channels | 1 |
| Channel resolution | 24 bit |
| Analog input | ± 10 V |
| Sampling rate | 32...256 kSPS |
| Band pass | 20 kHz |
| Dynamic range | > 100dB Random > 125dB Sine |
| Noise level | <10 μ Vrms noise |
| Protection | IP 40 |
| Connector type | BNC |
| Operating temperature | -40...+70° C |



Output Voltage Module

US 9264 Module

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

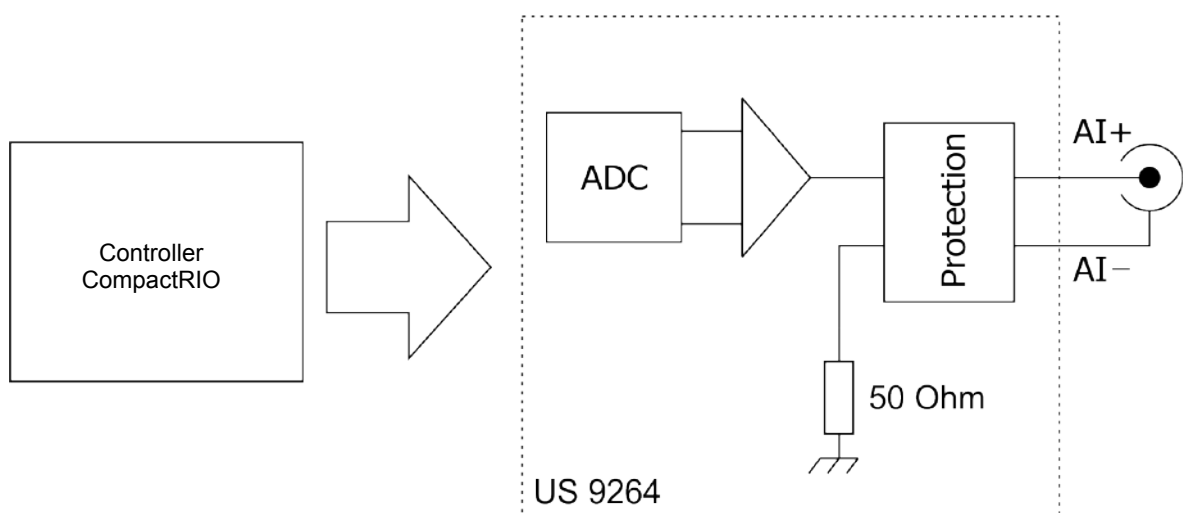
The module is a generator of instrument classes dynamic signals for audio components test and power supply of sensors during structural tests.

Fast sweep and reprogramming ensure repeatability of measure results and reduced test duration.

- ✓ 2 differential analog output channels
- ✓ overvoltage protection
- ✓ short-circuit protection

Specification

| | |
|-----------------------|---------------------------------------|
| Number of channels | 2 |
| Channel resolution | 24 bit |
| Sampling rate | 51,2 kS/s |
| Band pass | 23 kHz |
| Analog output | $\pm 10V$ |
| Protection | IP40 |
| Connector type | mini-XLR |
| Operating temperature | $-40 \dots 70 \text{ }^\circ\text{C}$ |





+ 41 21 552 12 64



contact@urartu.aero



www.urartu.com

