FlexLogger

FlexLogger helps you build flexible, scalable data-logging systems with CompactDAQ hardware, no programming required. You can use sensor-specific configuration workflows to quickly set up, visualize, and log a mix of synchronized analog sensor, digital pulse frequency, and CAN measurements. FlexLogger automatically saves metadata documenting your test configuration, so you can quickly trace test results and make comparisons across multiple tests. You can interactively review test results in the integrated data viewer to visually inspect your data and draw conclusions.

CompactDAQ is a portable, rugged data acquisition platform that integrates connectivity and signal conditioning into modular I/O for directly interfacing to any sensor or signal. Use CompactDAQ with LabVIEW software to customize how you acquire, analyze, present, and manage your measurement data. From research to development to validation, NI provides programmable software, high-accuracy measurements, and local technical support to ensure you meet your exact measurement application requirements.

Supported Devices:
CompactDAQ:
CompactDAQ Chassis:
- cDAQ-9171
- cDAQ-9174
- cDAQ-9178
- cDAQ-9179
- cDAQ-9181
- cDAQ-9184
- cDAQ-9185
- cDAQ-9188
- cDAQ-9188XT
- cDAQ-9189
- cDAQ-9191

- **Note**: FlexLogger supports synchronization between TSN-enabled CompactDAQ chassis (cDAQ-9185 and cDAQ-9189) provided they are a part of your local 802.1AS subnet. Refer to your chassis documentation, available on ni.com/manuals, for more information.

C Series Voltage Input Modules:
- NI 9201

- NI 9202
- NI 9205
- NI 9206
- NI 9209
- NI 9215
- NI 9220
- NI 9221
- NI 9222
- NI 9223
- NI 9224
- NI 9225
- NI 9228
- NI 9229
- NI 9238
- NI 9239
- NI 9242
- NI 9244
- NI 9251
- NI 9252

C Series Voltage Output Modules:
- NI 9262
- NI 9263
- NI 9264
- NI 9269

C Series Current Input Modules:
- NI 9203
- NI 9208
- NI 9227
- NI 9246
- NI 9247
- NI 9253

C Series Current Output Modules:
- NI 9265
- NI 9266

C Series Voltage and Current Input Modules:

- NI 9207

C Series Sound and Vibration Input Modules:

- NI 9230
- NI 9231
- NI 9232
- NI 9234
- NI 9250

C Series Temperature Input Modules:

- NI 9210
- NI 9211
- NI 9212
- NI 9213
- NI 9214
- NI 9216
- NI 9217
- NI 9226

C Series Universal Analog Input Modules:

- NI 9218
- NI 9219

C Series Strain/Bridge Input Modules:

- NI 9235
- NI 9236
- NI 9237

C Series Counter Input Modules:

- NI 9361

- **Note**: FlexLogger does not support pull-up resistor functionality. To enable pull-up resistor functionality, you will need to install an external pull-up resistor on the line.

- **Note**: 5 V differential (TTL) and single-ended (RSE) 24 V input are supported. For RSE input, however, FlexLogger does not support changing the input voltage threshold and uses the default level of 2.5 V.

C Series Digital Modules:

- Serial Digital I/O Modules

  - NI 9375
  - NI 9403
  - NI 9425
  - NI 9426
  - NI 9476
  - NI 9477
  - NI 9478

- Parallel Digital I/O Modules:

  - NI 9344
  - NI 9401
  - NI 9402
  - NI 9411
  - NI 9421
  - NI 9422
  - NI 9423
  - NI 9435
  - NI 9436
  - NI 9437
  - NI 9472
  - NI 9474
  - NI 9475
  - NI 9481
  - NI 9482
  - NI 9485

Note: You cannot use parallel and serial modules together on the same FlexLogger project unless they are installed in separate cDAQ chassis.

- C Series CAN and Vehicle Multiprotocol Interface Modules:

  - NI 9860
  - NI 9861
  - NI 9862

- C Series LIN Interface Module:

- NI 9866

FieldDAQ:
FieldDAQ Voltage Input Bank:
- FD-11601
- FD-11603
- FD-11605

FieldDAQ Temperature Input Bank:
- FD-11613
- FD-11614

FieldDAQ Sound and Vibration Input Bank:
- FD-11634

FieldDAQ Strain/Bridge Input Bank:
- FD-11637

Note: FlexLogger supports synchronization between TSN-enabled FieldDAQ devices provided they are a part of your local 802.1AS subnet. Refer to your device documentation, available on ni.com/manuals, for more information.