

TI Analog myParts Kit

Learn to build, build to learn



The myParts kit introduces students to electronic circuits through hands-on experimentation using a breadboard. The kit comes with over 50 components that are the building blocks of all electronics, enabling your students to perform experiments that help them understand the real-life applications.

With our strong history in education and as the established market leader of high-performance analog products, the TI University Program is extending a selection of key analog components to University engineering labs. The myParts kit provides a great learning platform for students to build and learn circuits which will enable them to understand complex analog electronic systems and be able to use the practical knowledge gained for their projects.

Compatible with:

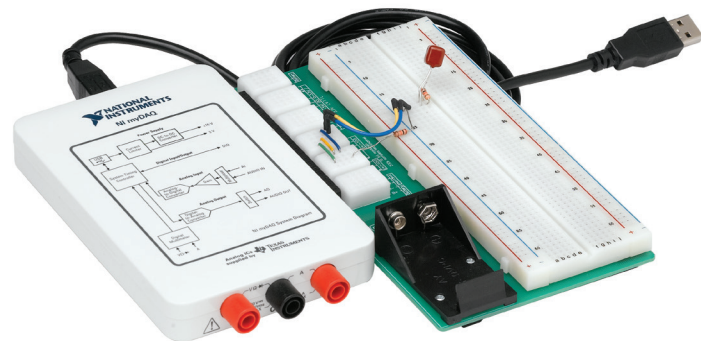
- TI Analog System Lab Kit Pro – ti.com/askl
- NI myDAQ – ni.com/mydaq
- NI ELVIS – ni.com/ni-elvis
- Digilent Electronics Explorer board – digilentinc.com/eeboard
- NI Multisim – spice simulation software tool ni.com/multisim

Recommended course material:

Develop experiments or design projects with the help of course material prepared by TI engineers. Visit ti.com/mypartskit to download the TI *Breadboard Experiments for NI myDAQ* for step-by-step instructions using the myParts Kit and NI myDAQ. The exercises feature a large selection of system block diagrams that illustrate the essential circuits that your students can create.

Projects that can be built with the kit include:

- Inverting and non-inverting amplifiers
- Filters
- Voltage followers
- Regulators
- Signal conditioning
- Integrators
- Pulse-width modulated (PWM) signal generators
- Differentiators
- Light detectors
- Data converters
- And many others



▲ NI myDAQ

What comes in the myParts Kit?

TI's myParts Kit provides a set of key components that are the building blocks of all electronic systems. Included are:

- Op-amps (TL072CP, TL074CN, LF356N/NOPB, LM741CN/NOPB)
- Data converters (ADS7816P, ADS7822P, TLV5616P)
- Resistors
- Instrumentation amp (INA217AIP)
- Comparator (LM311P)
- Regulators (LM317KCT, MC34063AP)
- Inductors
- Logic gates (SN74LS10N, SN74LS00N, SN74LS32N, SN74LS86AN, SN74LS02N, SN74LS08N)
- Diodes
- Capacitors
- Inverter (SN74LS04N)
- Buffer
- Dual complementary pair (CD4007UBE)
- Counter (SN74LS163N)
- Flip-flops (SN74LS107AN, SN74LS74AN)
- Transistors
- Decoder
- Encoder
- Multiplexers (SN74LS138N, SN74LS148N, CD4511BE)
- LEDs
- Wiring kit
- Timer (TLC555)
- Frequency-to-voltage converters (LM2917N/ NOPB)
- Infrared transistor
- Photocell buzzer
- Audio transformer

Ordering kits

- ▶ TI's myParts Kit is available from Diligent.
diligentinc.com/mypartskit



TI university program

TI worldwide online technical support

- TI semiconductor product information center home page support.ti.com
- TI E2E™ community home page e2e.ti.com
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TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

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