

Flexible Industrial IO Controller with Gateway Functionality

Customize your Industrial Process Control requirements with Linkedloops' Industrial IO Controller with IOT gateway connectivity features.

Process Controller Features

- Input voltage AC – 90V to 230V AC
- Input voltage DC – 12V to 36V DC
- Isolated internal power supply
- Tamper detection
- Watchdog, RTC

Digital Inputs (DI)

- Configurable inputs up to 16nos
- Inputs voltage range –7V to 65V
- Integrated isolation of 600VRMS
- IEC 61131-2 compliant inputs
- $\pm 8\text{kV}$ Contact ESD protection

Digital Outputs (DO)

- Configurable outputs up to 16nos
- +10.5V to +36V Output voltage range
- Output current 1.2A max
- $\pm 8\text{kV}$ Contact ESD protection

Analog Inputs (AI)

- 24-bit delta-sigma ADC
- Configurable single ended inputs up to 12nos
- Configurable differential inputs up to 8nos
- Voltage ranges
- Single ended :- $\pm 12.5\text{V}$, 0.1 to 2.4V
- Differential :- $\pm 25\text{V}$, $\pm 2.5\text{V}$, $\pm 1.25\text{V}$,
 $\pm 500\text{mV}$, $\pm 250\text{mV}$, $\pm 125\text{mV}$

Analog Outputs (AO)

- Configurable analog outputs up to 2
- 18-bit DAC with fast settling time
- $\pm 12.5\text{V}$ Output voltage
- $\pm 25\text{mA}$ or $\pm 2.5\text{mA}$ Output current
- $\pm 36\text{V}$ Protection on All analog I/O ports
- Open detection & overcurrent protection
- Thermal shutdown

RS485 (2 Channels)

- 2500VRMS of galvanic isolation
- $\pm 35\text{kV}$ Contact ESD protection
- 500kbps Maximum data rate
- Integrated true fail-safe circuitry

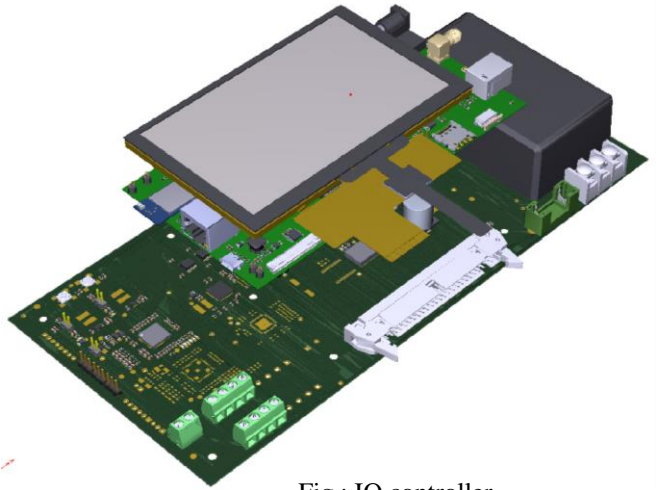


Fig : IO controller

Gateway Connectivity Features

- Ethernet – 10/100 Mbps
- Wi-Fi – up to 72 Mbps throughput
- 4G LTE (EC25) – 150 Mbps downlink and 50 Mbps uplink

Features

- Modular design
- Configurable inputs/outputs
- GUI – configuration and control
- Android App – configuration and control
- MODBUS
- OTAP
- BLE 5.0, LoRa
- Graphic display support – 800 X 480 with touchscreen

Services

- Customize inputs & outputs
- Software configurable input/ output current and voltage ranges
- Custom process control flow
- Design customization
- Design prototyping
- Custom mechanical enclosure
- Custom form factor development
- Complete BSP with platform
- Cloud Connectivity

For more Information:- Email at: - tech@linkedloops.com

[Linkedloops Technologies Private Limited, Pune](https://www.linkedloops.com)

Linkedloops