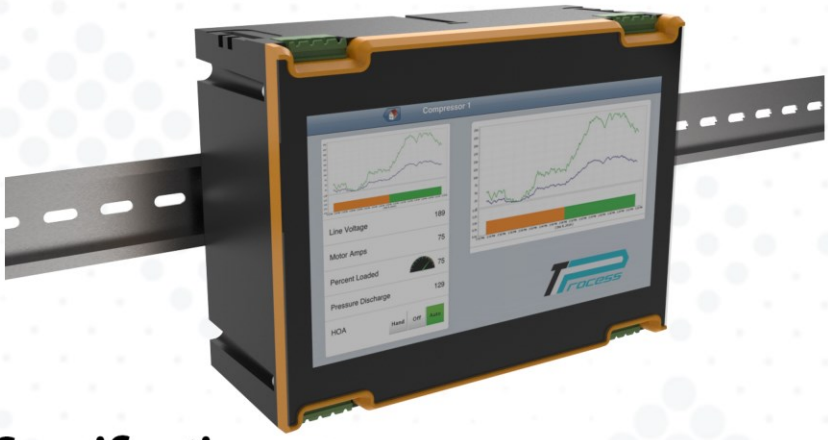
Smart Controller

Smart controller is a modular industrial controller device. There is one main module in each device which contains main CPU and memories and also have some basic interfaces. However for more features and interfaces there are some peripheral modules which extend the system functions.



Main Module Specifications

CPU	Quad Core Cortex-A9 @ 1.4GHz
RAM	1GB 32bit DDR3 RAM expandable to 2GB
Flash Memory	8GB onboard eMMC memory expandable to 16GB
Operating System	Linux Ubuntu-core, Android
External Memory	MicroSD Card up to 32GB
Display	5.0-inch TFT LCD with capacitive touch screen
Audio/Buzzer	Digital high-quality audio with internal 2W amplifier
Ethernet	2 × RJ45 connector for Ethernet
Wi-Fi	802.11 b/g/n, 2.4GHz
Bluetooth	Bluetooth V4.2, BLE
GNSS	Multi-GNSS engine for GPS, GLONASS, Galileo and QZSS
Network Technologies	4G Dual-Band UMTS/HSPA+, Quad-band GSM/GPRS/EDGE LTE
USB	2 × USB Host 1 × USB Device
HDMI	Micro-HDMI port for second LCD
LED indicator	LED indicator for power – status and each GPIO
Serial Ports	2 × RS232 1 × RS485 1 × CAN
DIO	4 × input 4 × output
External antenna port	1 × GPS 1 × WiFi/Bluetooth 1 × 4G
Power supply	9-36 VDC
Protection of power supply	Reverse polarity protected, overvoltage protection

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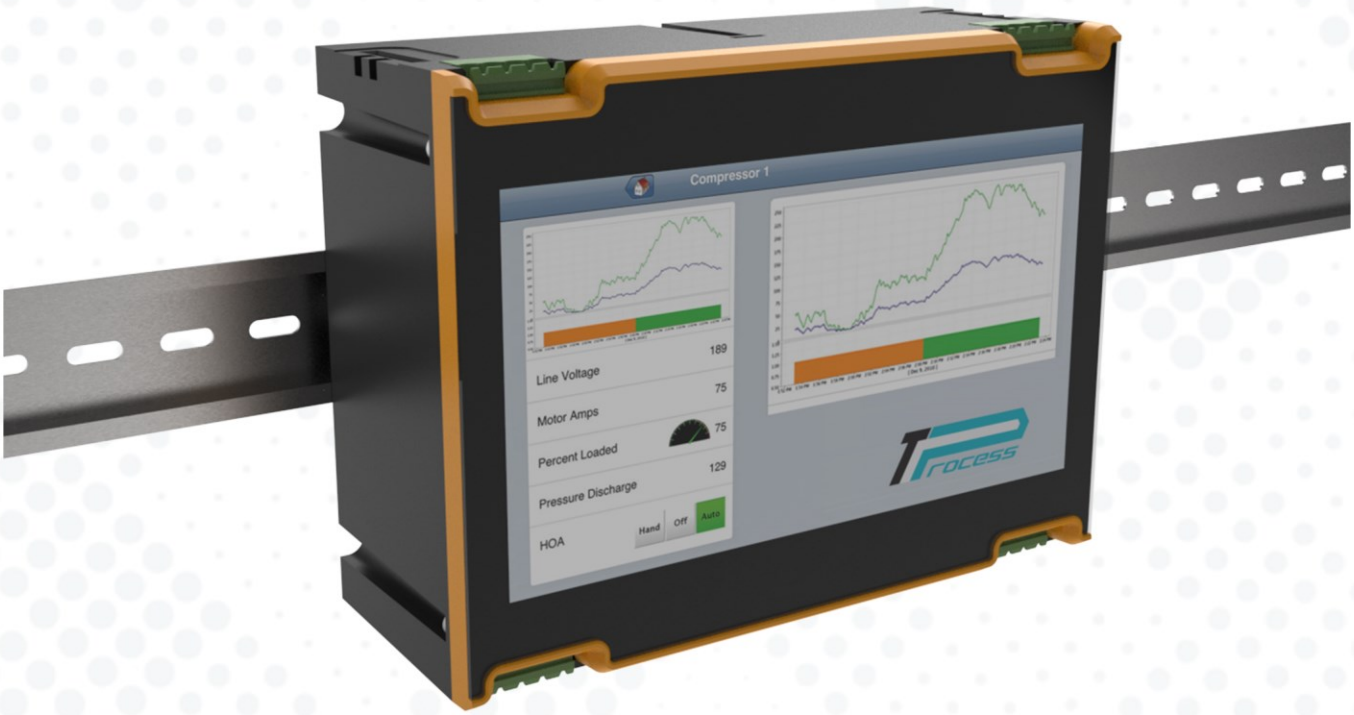
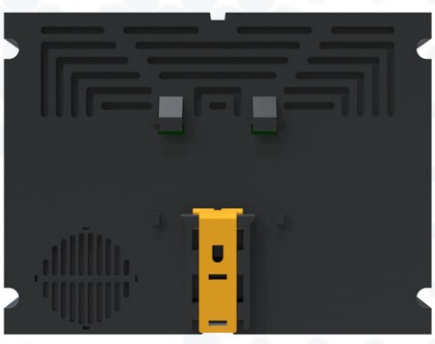
Digital I/O Module Specifications

Number of DIO channels	32 configurable Input/Output
Power supply	9-36 VDC
Max Power consumption	2.0 Watt
Input current limitation	1.0 mA (at 24 V power supply)
Input thresholds	EN61131-2 to Type I and III sensors
Input protection	Against overvoltage, negative voltages, burst, surge, ESD
Output type	Isolated digital output with high-side or push-pull drivers
Maximum current per output	100 mA (push-pull mode), 500 mA (high-side mode)
Output protection	Against short circuit, overload, negative voltages, burst,surge, ESD
Protection of power supply	Reverse polarity protected, overvoltage protection





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