

2STools IC - Specifications



2Stools^{IC}
Industrial Computer

The industrial computer "2STools IC" (IC2S) is a robust and flexible automation device dedicated to the acquisition of data, image, control and monitoring of processes and equipment. This device is part of a family of automation products designed for IoT / Industry 4.0 and are universal solutions for the market segment.

The assembly design ensures adequate cost per application. Features such as low power consumption, ease of setup and use provide easy adaptation to any plant or equipment, regardless of size.

Specifications

- Application: Data acquisition and control
- Power supply: 24Vdc ($V_{min} = 21.6V - V_{max} = 26.4V$)
- Processor 1: BCM2837 (1.2GHz, 1GB RAM, 4GB eMMC)
- Operational system: Linux Debian Jessie
- Embedded configuration interface: 2STools IC Device Manager
- Slot SD: Up to 32GB (used for database)
- Processor 2: ATSAMD21G18, Cortex M0+, 32 bits
- Memory processor 2: 256KB of Flash and 32KB of SRAM.
- Communication port: RS485 (Modbus master)
- Digital input: 3 (5-32Vdc isolated- 1000 Vac)
- Relay digital output: 2 (300mA with 125Vac, 1A with 30 VDC / isolated- 1000 Vac)
- Pulse input: 1 active 12Vdc 1kHz (isolated- 1000 Vac)
- Two Ethernet ports 10/100 Mbps (Modbus TCP/IP and Network bridge)
- Two USB ports 2.0
- Optional communications:
 - Wi-Fi 2.4GHz
 - 2G, 3G or 4G
 - Location using GPS
 - Remote devices communication: LoRa/Wi-Fi/Xbee
- Extension board I/O options:
 - 12 digital outputs (Relay 300mA with 125Vac, 1A with 30 VDC / isolated- 1000 Vac)
 - 12 digital inputs (5-32Vdc isolated- 1000 Vac)
 - 6 analog inputs (4-20mA / 0-10Vdc)
 - 1 pt100 + 3 analog inputs (4-20mA / 0-10Vdc) + 2 analog outputs (0-10Vdc)
 - Digital sensors: i2C / One wire
 - Other configurations on demand
- Dimensions: 155x110x65 (mm)