



IoTEasier Site Management Platform – Titan

Titan is an integrated hardware platform with a standard 1U rackmount enclosure. It is a site management device equipped with an ARM Cortex-A53 Quad-core processor running Ubuntu 20.04 LTS. The System offers high software compatibility and ease of deployment. Standard onboard connectors significantly reduce installation errors and maintenance requirements.

The core component operates on the open-source IoT program Node-Red, a user-friendly development tool featuring a visual interface and extensive protocol support. Node-Red enables Titan to support all onboard connectors, ensuring site stability



Feature:

- Built-in Raspberry Pi 3 Plus
- Redundant Power Input Port
- Wide Input Power Range (DC 24-60V)
- Rich set of interfaces: including DI, DO, AI, RS-485/RS-232 & 1-Wire
- Expandable Features: WiFi, BT & Lora
- Console Port for Installation
- All Ports Isolated

System:

ARM Cortex-A53 Quad-Core Processor
1GB LPDDR2 SDRAM
16GB On-Board eMMC Flash
OS: Linux OS (Ubuntu)

Connectivity:

9-Ports Ethernet (w 4x PoE ports)

Interface:

2x USB 2.0
M.2 Key B for wireless expandable support

Serial Ports

2x Ports RS-485
Ports RS-232
1-Wire

Digital Input/Output (with LED indicator)

Up to 20x Input ports
Up to 18x Output Ports (BJT)

Analog Input:

6x Analog Input port (Voltage)
1x Analog Input (Current)

FAN Driver:

3x PWM FAN
Rating: up to 2A per port
Dedicate Power DC_IN

Mechanical & Environment:

Operation Temperature: 10°C ~ 45°C
Dimensions (WxLxH): 43 x 25 x 4.4 (cm)
Weight: xxgm

Other:

Watch Dog Timer
Real Time Clock (w Battery)



SYSTEM	
CPU	ARM Cortex-A53 Quad-Core @ 1.2GHz
RAM	1GB LPDDR2 SDRAM
Flash Memory	16GB eMMC (On-Board)
Operating System	Linux (Ubuntu 18.04LTS) (Node-Red inside)
Real Time Clock	RTC with Back Up Battery
SERIAL PORTS	
RS-232	2 ports RS-232 with Flow Control (Isolated)
RS-485	2 Ports RS-485 (2-Wire) (Isolated)
1-Wire	1-Wire with 5V supply (Isolated)
INPUT / OUTPUT	
Digital Input (DI)	20 Dry Contact
Digital Output (DO)	20 Output Signal (18 BJT & 2 Relay)
Analog Input (AI)	7 Analog Input (AI-V x 6, AI-C x1)
FAN DRIVER	
PWM FAN Driver	3 Ports PWM, (2A Rating for Each) (Isolated)
POWER SUPPLY	
Supply Voltage	24V – 60V DC (Isolated)
MECHANICAL PARAMETERS	
Dimensions (WxLxH)	45 x 25 x 4.4 (cm)
Weight	
Casing	Metal
OPERATING AND STORAGE CONDITIONS	
Operating	10°C ~ 45°C
Storage	
CONNECTOR AND PHYSICAL INTERFACES	
Digital Input/Output	SCSI-50 x2
Serial Interface	RJ45 (8P8C)
Analog Input	RJ45 (8P8C)