

TCU-MiniT+ • Controller • Gateway• Aggregator

KEEP YOUR CRITICAL OPERATIONS RUNNING EFFICIENTLY

TCU-MiniT+ Capabilities

TCU-MiniT+ is designed to enable efficient remote monitoring and control for critical infrastructure like Telecom sites, Cable Landing Stations, and Edge Data Centers. Some of the capabilities of TCU-MiniT+Universal Controllers are:

- Free Air Cooling and Single HVAC (legacy) Control.
- Ideal for HVAC control, Generator, fuel monitoring, and block heater management.
- Supports SNMP, Modbus, MQTT, UDP, LTE, optional Wi-Fi, and cloud integration.
- 32 port Alarm Expansion Module for alarms monitoring

PLC Group's Remote Monitoring and Control Hardware Portfolio

PLC Group offers an extensive portfolio of fixed and modular controllers, IoT gateways, and sensors for remote visibility and control of critical infrastructure elements. PLC Group's range of products includes various gateways and controllers with diverse combinations of IP ports, mounting types, displays, edge computing capabilities, and other features.

PLC Group's products are vendor-neutral and seamlessly integrate with existing infrastructure elements such as DC plant batteries, generators, HVAC systems, tower lights, and more. With this integration, users can monitor and control these elements over 4G/3G Wi-Fi, Ethernet, and using protocols such as Modbus, CAN bus, UDP and SNMP.







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TCU-MiniT+ Features

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Processing & Memory	
Processor	ARM Cortex-A72 clocked
Processing Speed	1.8 GHz
RAM	4 GB LPDDR4
Storage Space	8 GB (expandable up to 16/32 GB)
Operating System	Linux Distribution: Debian (Version: Buster)
Storage	Flash
Power Requirements	
Input Voltage	18 VDC to 60 VDC
Nominal Power Consumption	14 W
Fuse/Breaker Rating	5 Amp
Operating Temperature	-20°C to 55°C
Interfaces & Ports	
RS-485 Ports	2
USB Interfaces	4
Universal Inputs	11+22 = 33 (0-5V, 0-10V, 4-20mA, Dry Contact, Temperature, Pulse Count)
Analog Outputs	3 (0-10VDC)
Digital Output Relays	7 (1A @120VAC)
RJ45 IP Ports	1x 10/100/1000M IP/Ethernet Port
Networking and Connectivity	
Communication Protocols	SNMP v1, v2c, v3, Modbus RTU/TCP, TCP/UDP, SMTP, HTTP/HTTPS, MQTT, NTP, Telnet, ICMP, SSH, DHCP, DNS
WiFi	Wi-Fi (IEEE 802.11 b/g/n) (optional)
Wi-Fi Hotspot	Optional

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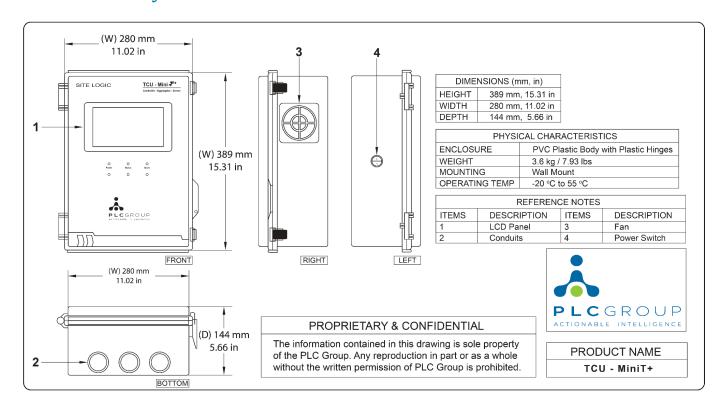


Software Features	
Security Features	Password, SSL, SNMP v3, Radius, VPN
Remote Software & Firmware Upgrades	Yes
Remote VPN Access	Wire GuardVPN
Cloud Integration	Yes
Physical Features	
Enclosure	PVC Plastic Body with Metal Hinges
Mounting	Wall Mount
Shipping Weight	3.6 kg / 7.93 lbs
Dimensions (HxWxD) mm / in	(389 x 280 x 140) mm/(15.3 x 11.02 x 5.5) in
HMI (Human Machine Interface)	7-Inch Touch Screen Display
Unit LEDs	PowerStatusAlarm
Hardware Control Examples	
Single HVAC Thermostat Control	Yes
Fuel Monitoring	Yes
Generator Control (Legacy/Smart)	Yes
Block Heater Monitoring and Control	Yes
Integration with Smart Elements over Modubus/SNMP	Yes

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TCU-MiniT+ Physical Dimensions



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