tor.ai®

May 2025

Product Catalog

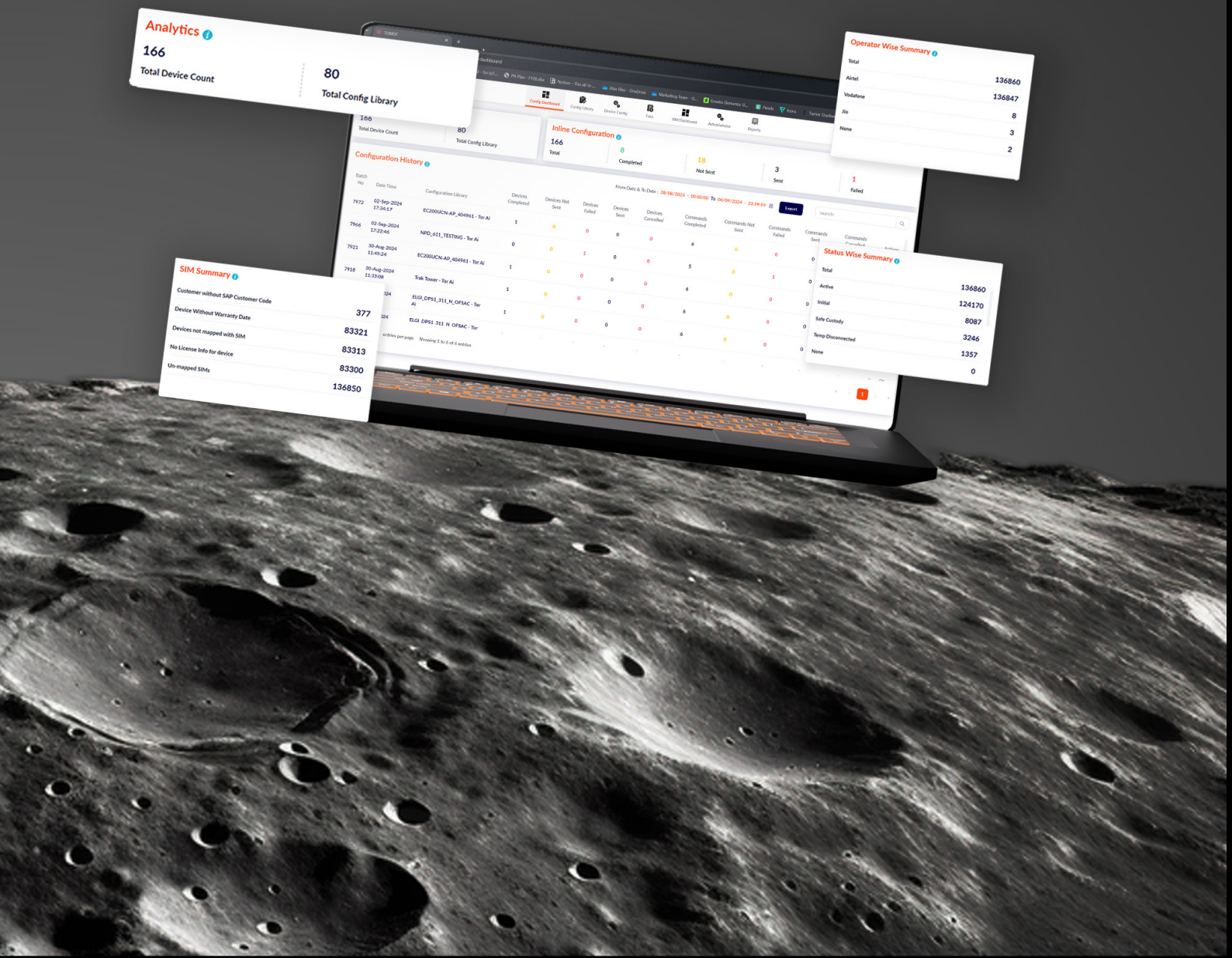
Gateways
Controllers
Sensors
Configuration Utility

Our Purpose

We believe that a data-driven world will make business more efficient, employees more engaged, and the environment more sustainable.

Our Mission

Connect 1 billion devices



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Gateways

Designed for industrial environments, Tor.ai's gateways deliver reliable performance with features like multi-network connectivity (4G, Ethernet, BLE), advanced telemetry, and secure over-the-air updates. These gateways provide a comprehensive solution for monitoring, controlling, and optimizing equipment across distributed operations.

Sensors

Our sensors provide comprehensive environmental and operational data, supporting advanced analytics for predictive maintenance. Designed for harsh industrial conditions, they ensure precise readings and are compatible with a wide range of equipment, enhancing your ability to manage and protect assets efficiently.

Controller

Designed for flexibility, Tor.ai's controllers provide robust control over diverse equipment, supporting automated workflows and remote configuration. These controllers integrate effortlessly with our IoT platform, allowing for dynamic adjustments and optimized performance in real-time.

Energy Meter

Device Provisioning Utility

DPS Utility by Tor.ai offers centralized control over device provisioning, allowing for effortless activation, configuration, and tracking. It supports large-scale deployments, ensuring that all devices are correctly set up and ready for immediate use, enhancing overall operational efficiency.

Gateways

Robust type tested edge gateways
Unmatched performance even in harsh conditions

Pluto Series
Essential

Pluto 313
4G LTE device with Modbus over RS485 support

Pluto 411 | 412
4G LTE device with CAN support

Pluto 714
4G LTE device with CAN support

Venus Series
Advanced

Venus 411 | 411 B
Advanced 4G LTE Cat1 device having RS485 and CAN support with battery back-up

Venus 511
Venus 511 E1 | 511 E2
Advanced 4G LTE Cat1 device having RS485 and CAN support with battery back-up

Jupiter Series
Pro

Jupiter 511
Industrial application device having 4G LTE Cat1 connectivity with flexible communication protocols support and flexible Inputs along with a high capacity battery backup

Jupiter 611 | 611 G
Ethernet device having 4G LTE Cat1 connectivity with flexible communication protocol support along with a high capacity battery backup

Jupiter 812
SNMP Protocol device for monitoring devices on IP networks

Gateways

Sr No	New Names	RS 485	RS 232	Ethernet	CAN	BLE	Wifi	Hr Mtr	CI	AI
1	TOR Pluto 313	1	-	-	-	Y	-	-	-	-
2	TOR Pluto 411	1	-	-	1	Y	-	-	-	-
3	TOR Pluto 412	-	1	-	1	Y	-	-	-	2
4	Tor Pluto 714	-	-	-	-	Y	-	1	1	2
5	TOR Venus 411	-	-	-	1	Y	-	-	-	-
6	TOR Venus 411 B	-	-	-	1	Y	-	-	-	2
7	TOR Venus 511	1	-	-	1	Y	-	1	1	2
8	TOR Venus 511 E 1	1	-	-	1	Y	-	1	1	2
9	TOR Venus 511 E 2	1	-	-	1	Y	-	1	1	2
10	TOR Jupiter 511	1	-	-	1	Y	Y	1	1	8
11	TOR Jupiter 611	1	-	1	1	Y	-	-	-	-
12	TOR Jupiter 611 G	1	-	1	1	Y	Y	-	-	-
13	TOR Jupiter 812	1	-	1	-	Y	Y	-	-	-

DI	DO	4G	GPS	ACC	Int Memory	Flash M	Batt	Antenna
-	-	Y	Y	-	1000 (Strings)	-	-	External
-	-	Y	Y	-		64 MB	800mAH	Internal
4	1	Y	Y	Y		64 MB	800mAH	External
2	1	Y	Y	-		64 MB	-	Internal
2	1	Y	Y	-		64 MB	-	Internal
2	1	Y	Y	Y		64 MB	800mAH	Internal
2	1	Y	Y	-	1000 (Strings)	-	800mAH	External
2	1	Y	Y	-		64 MB	800mAH	External
2	1	Y	Y	-		64 MB	800mAH	Internal
8	4	-	-	-		64 MB	800mAH	External
-	-	Y	Y	-		64 MB	800mAH	External
-	-	Y	Y	-		4 MB	800mAH	External
-	-	-	-	-		4 MB	-	External

Tor Pluto

Model Number	Pluto 313	Pluto 411	Pluto 412	Pluto 714
Power Supply				
Supply Voltage	12-30 V DC	14-90 V DC	9-30 V DC	14-30 V DC
Max Supply Voltage	30 V DC	90 V DC	30 V DC	30 V DC
Reverse Polarity Protection	0 to -30 V DC	0 to -90 V DC	0 to -30 V DC	0 to -30 V DC
Max Operating Current	<100 mA	<100 mA	<100 mA	<100 mA
Peak Operating Current	2A @network activities	2A @network activities	2A @network activities	2A @network activities
BackUp Battery	NA	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V	NA
Communication				
Cellular	4G- LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS	
Network Protocol	Http, Mqtt	Http, Mqtt	Http, Mqtt	Http, Mqtt
Interfaces				
CAN	NA		1	NA
RS232/485	1 (RS485)	1 (RS485)	1 (RS232)	NA
Digital Input	NA	NA	4 (12-30 V)	2 (0-30 V)
Digital output	NA	NA	1 (1A, 60V)	1 (1A, 60V)
Analogue Input	NA	NA	2 (0-30 V)	2 (0-15V) single wire
Counter Input (0-1000 Hz)	NA	NA	NA	1
Hour Meter	NA	NA	NA	1
GNSS Antenna	External	Internal	External	Internal
Cellular Antenna	ExternalGSM	Internal GSM	External GSM	Internal GSM
SIM	Micro	Micro	Micro	Micro
Memory	1000 strings	64 MB	64 MB	64 MB
Bluetooth				
Specification	BLE 4.2	BLE 4.2	BLE 4.2	BLE 4.2
Additional Features				
Configuration / FOTA	Web configuration	Web configuration	Web configuration	Web configuration
Sensors	NA	NA	Accelerometer	NA
Physical Specification				
Dimension	104 * 91 * 36 (L*W*H)	104 * 91 * 36 (L*W*H)	104 * 91 * 36 (L*W*H)	104 * 91 * 36 (L*W*H)
Harness	4 Pin	4 Pin	16 Pin	8 Pin
Operating Environment				
Operating Temperature	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C
Operating Humidity	85 Rh	85 Rh	85 Rh	85 Rh
Vibration	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz
Enclosure Ingress Protection (IP)	IP 65	IP 65	IP 65	IP 67

Tor Venus


tor.ai™
Venus
11-90V DC
4G-LTE CAN
RS485 BLE
G-sensor
IP 65
Made in India
CE

Model Number	Venus 411	Venus 411 B	Venus 511	Venus 511 E 1	Venus 511 E 2
Power Supply					
Supply Voltage	14-90 V DC	14-90 V DC	12-30 V DC	12-30 V DC	12-30 V DC
Max Supply Voltage	90 V DC	90 V DC	30 V DC	30 V DC	30 V DC
Reverse Polarity Protection	0 to -90 V DC	0 to -30 V DC	0 to -30 V DC	0 to -30 V DC	0 to -30 V DC
Max Operating Current	<100 mA	<100 mA	<100 mA	<100 mA	<100 mA
Peak Operating Current	2A @network activities	2A @network activities	2A @network activities	2A @network activities	2A @network activities
BackUp Battery	NA	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V
Communication					
Cellular	4G- LTE-FDD B1/B3/ B5/B8 LTE-TDD B34/B38/ B39/B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/ B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/ B3/B5/B8 LTE-TDD B34/B38/ B39/B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/ B5/B8 LTE-TDD B34/B38/B39/ B40/B41 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/ B5/B8 LTE-TDD B34/B38/ B39/B40/B41 2G- GSM 900 MHz/1800 MHz
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS
Network Protocol	Http, Mqtt	Http, Mqtt	Http, Mqtt	Http, Mqtt	Http, Mqtt
Interfaces					
CAN	1	1	1	1	1
RS485	NA	NA	1	1	1
Digital Input	2 (0-90V)	2 (0-90V)	2 (0-30V)	2 (0-30V)	2 (0-30V)
Digital Output	1 (500mA, 60V)	1 (500mA, 60V)	1 (500mA, 60V)	1 (500mA, 60V)	1 (500mA, 60V)
Analogue Input	NA	2 (0-90V) single wire	2 (0-30V) single wire	2 (0-30V) single wire	2 (0-30V) single wire
Counter Input (0-1000 Hz)	NA	NA	1	1	1
Hour Meter	NA	NA	1	1	1
GNSS Antenna	Internal	Internal	External	External	Internal
Cellular Antenna	Internal GSM	Internal GSM	External GSM	External GSM	Internal GSM
SIM	Micro	Micro	Micro	Micro	Micro
Memory	64MB	64MB	1000 strings	64 MB	64 MB
Bluetooth					
Specification	BLE 4.2	BLE 4.2	BLE 4.2	BLE 4.2	BLE 4.2
Additional Features					
Configuration / FOTA	Web configuration	Web configuration	Web configuration	Web configuration	Web configuration
Sensors	NA	Accelerometer	NA	NA	NA
Physical Specification					
Dimension	120 * 115 * 35 (L*W*H)	120 * 115 * 35 (L*W*H)	120 * 115 * 35 (L*W*H)	120 * 115 * 35 (L*W*H)	120 * 115 * 35 (L*W*H)
Standard Harness	4 Pin	4 Pin	12 Pin	12 Pin	12 Pin
Operating Environment					
Operating Temperature	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C	-40 to +85 deg C
Operating Humidity	85 Rh	85 Rh	85 Rh	85 Rh	85 Rh
Vibration	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz
Enclosure Ingress Protection (IP)	IP 65	IP 65	IP 65	IP 65	IP 65

Tor Jupiter


Made in India
CE
tor.ai™
Jupiter
11-90V DC
4G-LTE
CAN
Rs485
Ethernet
WiFi
BLE
G-sensor
IP 65

Model Number	Jupiter 511	Jupiter 611	Jupiter 611 G	Jupiter 812
Power Supply				
Supply Voltage	12-30 V DC	12-30 V DC	12-30 V DC	12-30 V DC
Reverse Polarity Protection	0 to -30 V DC	0 to -30 V DC	0 to -30 V DC	0 to -30 V DC
Max Operating Current	<100 mA	<100 mA	<100 mA	<100 mA
Peak Operating Current	2A @network activities	2A @network activities	2A @network activities	2A @network activities
BackUp Battery	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V	800 mAH , Li-Ion 3.7 V	NA
Communication				
Cellular	4G- LTE-FDD B1/B3/B5/ B7/ B8/B20 LTE-TDD B38/B40/B41 WCDMA-B1/B5/B8 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/B5/ B7/ B8/B20 LTE-TDD B38/B40/B41 WCDMA-B1/B5/B8 2G- GSM 900 MHz/1800 MHz	4G- LTE-FDD B1/B3/B5/ B7/ B8/B20 LTE-TDD B38/B40/B41 WCDMA-B1/B5/B8 2G- GSM 900 MHz/1800 MHz	NA
WIFI	IEEE 802.11 Wireless network	NA	IEEE 802.11 Wireless network	IEEE 802.11 Wireless network
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou	GPS, GLONASS, BeiDou	NA
Interfaces				
Digital Input	8 (0-40 V)	0	0	0
Digital Output	4	0	0	0
Analogue Input	4 (0-30V) & 4 (4-20mA) single wire	0	0	0
CAN	1	1	1	0
RS485	1	1	1	1
Counter Input (0-1000 Hz)	2	NA	NA	NA
Hour Meter	1	NA	NA	NA
Ethernet	NA	1	1	1
GNSS Antenna	External	External	External	NA
Cellular Antenna	External GSM	External GSM	External GSM	NA
SIM	Micro	Micro	Micro	Micro
Memory	64 MB	64 MB	4 MB	4 MB
Bluetooth				
Specification	BLE 4.2	BLE 4.2	BLE 4.2	BLE 4.2
Supported peripherals	Fuel sensors, BLE Beacons	Fuel sensors, BLE Beacons	Fuel sensors, BLE Beacons	Fuel sensors, BLE Beacons
Additional Features				
Configuration / FOTA	Web configuration	Web configuration	Web configuration	NA
Sensors	Accelerometer	NA	NA	NA
Physical Specification				
Dimension	170 * 110 * 42 (L*W*H)	170 * 110 * 42 (L*W*H)	170 * 110 * 42 (L*W*H)	170 * 110 * 42 (L*W*H)
Operating Environment				
Operating Temperature	-10 to +70 deg C	-40 to +85 deg C	-10 to +70 deg C	-40 to +85 deg C
Operating Humidity	85 Rh	85 Rh	85 Rh	85 Rh
Vibration	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz	2g, 10-150 Hertz
Enclosure Ingress Protection (IP)	IP 65	NA	NA	NA

Tor Mars

Model Number	Mars 712	Mars 713
Power Supply		
Supply Voltage	12-90 V DC	3*AA Battery
Max Supply Voltage	90 V DC	5 V DC
Reverse Polarity Protection	0 to -90 V DC	0 to -5 V DC
Max Operating Current	<100 mA	NA
Peak Operating Current	2A @network activities	NA
BackUp Battery	250 mAH , Li-Ion 3.7 V	Slabs
Communication		
Cellular	2G Quad-band GSM 850 / 900 / 1800 / 1900 MHz	2G Quad-band GSM 850 / 900 / 1800 / 1900 MHz
GNSS	GPS, GLONASS	Traingulation
Network Protocol	Http, Mqtt	Mqtt
Interfaces		
Digital Input	1	NA
Digital Output	1	NA
Analogue Input	1 (0-40 v)	NA
GNSS Antenna	Internal	NA
Cellular Antenna	Internal GSM	Internal GSM
SIM	Micro (1)	Nano (1)
Memory	200 records @1 min frequency	NA
Additional Features		
Configuration & FW update	FOTA	NA
Physical Specification		
Dimension	51 * 98 * 20 (LWH)	51 * 98 * 20 (LWH)
Operating Environment		
Operating Temperature	-10 to +70 deg C	0 to 40 deg C
Operating Humidity	85 Rh	NA
Vibration	2g, 10-150 Hertz	NA
Enclosure Ingress Protection (IP)	IP 65	85 Rh

Tor Locate


Made in India
www.tor.ai
tor.ai™
Manufactured by:
Tor.ai Limited, Pune, India

Model Number	Locate
Power Supply	
Supply Voltage	3x AA Batteries
Maximum Operating Current	<100mA
Low Power Operating Current	<1mA
Communication	
Wireless Connectivity	GSM/GPRS
Location Tracking	Triangulation
SIM	Nano
Interfaces	
Operating Temperature	-20 to +75deg C
Humidity	95 RH
Vibration	3g

Sensors

Temperature, Fuel & Vibration

Sensor

Tor Mercury
Temprature

Tor Ceres
Fuel

Tor Neptune
Vibration

Tor Mercury

Suitable for a variety of bus bar trucking systems, panel deployments for distribution systems temperature monitoring applications

Configurability
Mobile based utility to pair with Gateways

Wireless Connectivity
Seamlessly connect with Tor Gateways and other industrial controllers using the industry-standard BLE communication, integrate effortlessly with existing systems

Built Tough. Built to Last
The IP65-rated enclosure shields your device from dust, dirt, and water jets, ensuring it thrives in even the harshest environments

Temperature Measuring range	-40 to +240 °C
Temperature accuracy	± 0.1
Battery	2700 mAH, 2 x ER14505 batteries
Battery Life	15 years
Operating voltage	7.2V (nominal)
Dimensions	65 x 70 x 65 (L x B x H)
Communication	BLE 5.2, advertising mode
Communication range	50 meter
Ingress Protection	IP40
Attachment method	Adhesive for horizontal busbars, Extension clip

Tor Ceres

Tor Fuel Sensor is bluetooth enabled, high-precision capacitive fuel level sensor, which is used to monitor fuel consumption, refueling, draining and theft on all types of vehicles, as well as stationary tanks

Configurability

Mobile based and web based utility to setup pairing, self pairing feature is also added which makes the configuration super easy

Communication

In addition to digital, frequency and analog output signals, BLE mode has been added to this sensor

Adoptability

The fuel monitoring sensor is easy to set up and perfectly interacts with monitoring systems of any make

Build to Last

Operating temperature range from -60/+85 °C. It comes with a embed-ed battery which can power your installation up to 3 years

Measurement error in the effective range	up to 1%
Operating modes	BLE
Output range	not less than 10 meters
Ingress Protection	IP69
Explosion proof mark	OEx ia IIB T6 X
Operating Temperature- ambient	-40 to +50 °C
Operating Temperature- extreme ambient	-40 to +85 °C
Dimension	90*90*(L+38)mm, where L is sensor length in mm
Battery life	5 years

Tor Neptune

Industrial application device, the vibration sensor is a cost-effective solution with high sensitivity, fast response, and superior performance

Ease of Mounting
Magnetic base for ease of mounting and built to use in harsh industrial working conditions

Protection
Load dump protection as per ISO 7637-2 with IP 65 Enclosure

Interfaces
Lite Gateway with serial communication interfaces : RS 485/CAN/BLE

Condition-based monitoring
Enable your preventive maintenance to increased reliability, improved uptime. Remote & real-time monitoring system helps in achieving high operation efficiency

Sensing Tech	MEMS Based
Vibration Sensor	3-axis MEMS Sensor
Frequency Range	10Hz to 1.3kHz
Sampling Rate	6.66k per sample
Shock Tolerance	10,000g for 0.2ms
Linear Acceleration sensitivity	0.488mg/LSB (± 16G)
Resolution	16 bit
Data from sensor	3-axis acceleration & velocity RMS, Temperature
Temperature Sensor	Semiconductor senor with max 0.2 °C accuracy over -40 °C to 100 °C range
RS-485	RTU connectivity on Modbus protocol

Controller


Saturn
tor.ai
9-36V DC
AI
DI
Hour Meter RS485
DO
IP 65
Saturn
tor.ai
9-36V DC
AI
DI
Hour Meter RS485
DO
IP 65

Tor Saturn


Saturn
tor.ai
9-30V DC
AI
DI
Hour Meter Rs485
DO
IP 65
Made in India
CE

Model Number	Saturn 321	Saturn 322
Power Supply		
Supply Voltage	9-30 V DC	9-30 V DC
Max Supply Voltage	30 V DC	30 V DC
Reverse Polarity Protection	0 to -30 V DC	0 to -30 V DC
Max Operating Current	<100 mA	<100 mA
Interfaces		
Digital Input	4 (0-30V)	4 (0-30V)
Digital output	8 (5A, 12V)	8 (5A, 12V)
Analogue Input	4 (0-30V) single wire	4 (0-30V) single wire
Analogue Output	2	2
RS232/485	1	1
Counter Input (0-1000 Hz)	0	0
Hour Meter	1	1
LED Indication	NA	NA
Additional Features		
Alternator excitation	158 * 126 * 42.50 (LWH)	158 * 126 * 42.50 (LWH)
Physical Specification		
Dimension	120 mA	240 mA
Operating Environment		
Operating Temperature	-10 to +70 deg C	-10 to +70 deg C
Operating Humidity	85 Rh	85 Rh
Vibration	2g, 10-150 Hertz	2g, 10-150 Hertz
Enclosure Ingress Protection (IP)	IP 65 (Front), IP 20 (Back)	IP 65 (Front), IP 20 (Back)

Cygnus 901

Smart Edge Appliance

Smart edge appliance

Tor Cygnus

Model Number	Cygnus 901 Smart Edge Appliance
Power Supply	
Input Voltage	230V/50Hz AC
Output Voltage	5V/5A DC
SDK	
Operating System	Android 13
Processor	Qualcomm® QCM2290 quad-core ARM® Cortex®-A53@2.0 GHz 64-bit processor with built-in Adreno™ 702 GPU
Supported Programming Languages (for users to develop their own Applications)	C, C++, Python, Java, Node.js etc.
Flash Available for SDK	16GB(Standard) / 32GB(Optional)
RAM Available for SDK	2GB
Network Protocols	
Ethernet, HTTP, MQTT, Modbus (RS485, 422), Modbus TCP/IP, Ethernet IP, BACnet, Profinet, OPCUA	
Interfaces	
USB	USB 2.0 - 2nos.
Ethernet	RJ45 - 2nos.
Serial	RS485 - 2 Unit
HDMI	1 HDMI port
Audio	3.5 mm AUX to support Speaker & Mic
Antenna	3 Units External Antenna - (GSM, GPS, BLE/WIFI)
Cellular	4G
SIM Slot	Nano SIM - 1 unit
SD CARD Slot	Support upto 128GB
Location Services	GNSS/GPS
Wifi	IEEE 802.11 family of standards
Bluetooth Operation	BLE 5.0
led Indicators	Power & Network 4G(GSM/GPS)
Digital Inputs	4 nos : 0 to 30V
Analog Inputs	1 No. (16 bit) - 0 to 36V & Resistor 0 to 1K
Digital Output	4 Nos (Sink type wit 1A max current)
Power/ Reset Button	Available
RTC	Available
Enclosure	
Mounting	Din Rail / Table Top
Form Factor	115 X 52 x 150 mm (LxWxH)

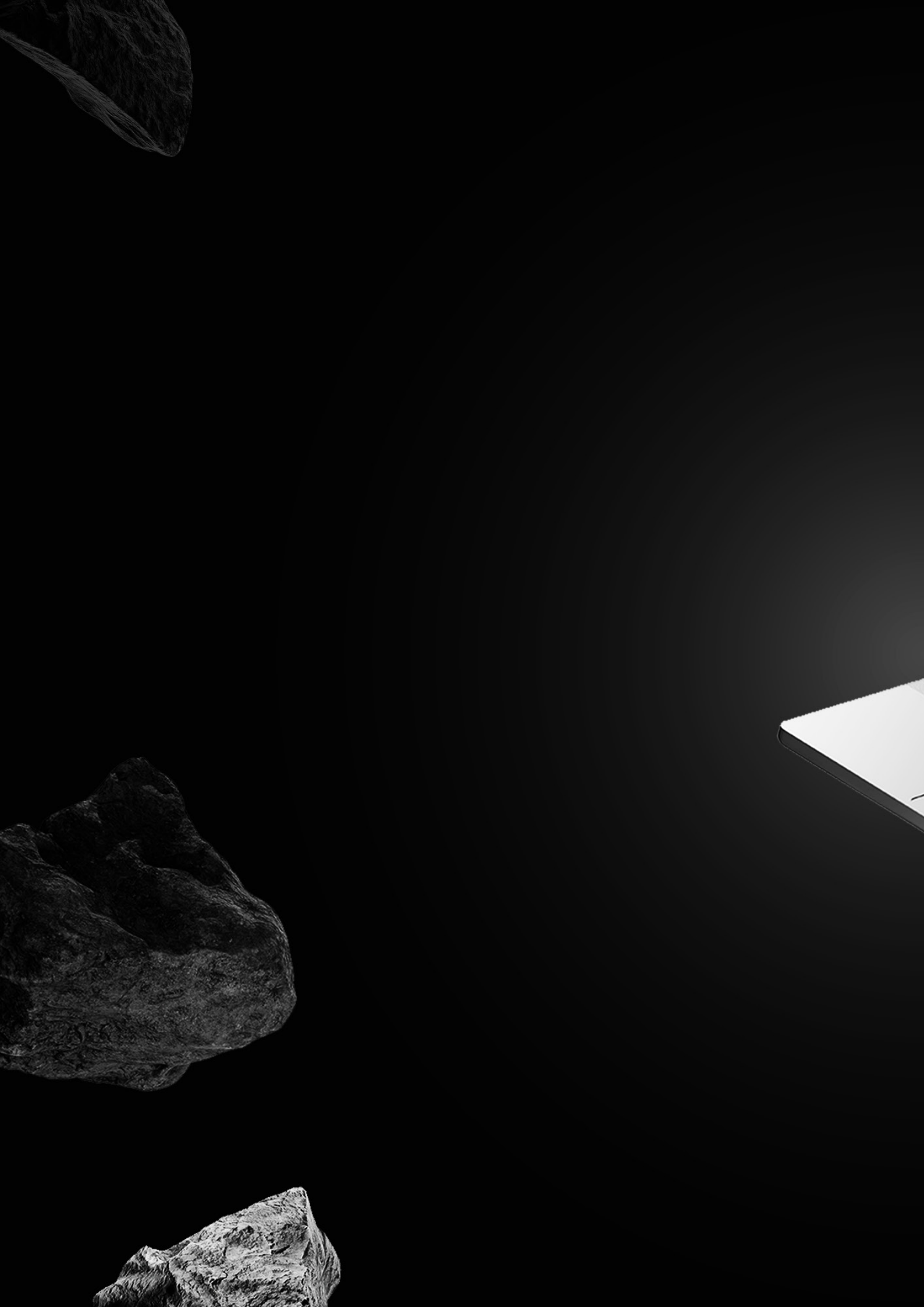
Meter

Titan


tor.ai
tor.ai
06-01-2025 13:09
Power / Max. Demand
Active 120.0 kW
Apparent 125.2 kVA
Reactive 07.40 kVAR
Demand (max) 192.0 kVA
Demand (Cumu.) 205.0 kVA
TiTAN

Model Number	Titan 211	Titan 212	Titan 311
Electrical			
Voltage Range	50V - 500V (AC 3 Phase 4 wire, 3 phase 3 wire)	50V - 500V (AC 3 Phase 4 wire, 3 phase 3 wire)	50V - 500V
Aux Power Supply range	65V - 450V AC/DC supply	65V - 450V AC/DC supply	65V - 450V AC/DC supply
Current Range	0.05A - 5.0A (20% Overload)	0.05A - 5.0A (20% Overload)	0.05A - 5.0A (20% Overload)
Frequency	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
Accuracy Class	0.5S	0.5S	0.5S
Short time over current	200% for 10 Sec	200% for 10 Sec	200% for 10 Sec
Compliance			
Standadrds	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31
Mechanical			
Dimensions (W*H*D)	96*96*41 mm	96*96*41 mm	96*96*41 mm
Weight	0.5Kg	0.5Kg	0.5Kg
Enclosure	Polycarbonate	Polycarbonate	Polycarbonate
Terminals	Plug In	Plug In	Plug In
Mounting	Panel Mounting, Din rail (Optional)	Panel Mounting, Din rail (Optional)	Panel Mounting, Din rail (Optional)
Environmental			
IP	IP54(front facia) ; IP 20 (at terminals)	IP54(front facia) ; IP 20 (at terminals)	IP54(front facia) ; IP 20 (at terminals)
Insulation	min 10 MOhm	min 10 MOhm	min 10 MOhm
Impluse withstand	Refer to standard		Refer to standard
Operating Temp	10 to 75 deg C	10 to 75 deg C	10 to 75 deg C
Storage Temp	0 to 85 deg C	0 to 85 deg C	0 to 85 deg C
Humidity	95% RH	95% RH	95% RH
Communication			
Modbus	RS 485	RS 485	RS 485
Baudrate	9600 to 115200 settable	9600 to 115200 settable	9600 to 115200 settable
WIFI	NA	IEEE 802.11 Wireless network	NA
BLE (Bluetooth Low Energy)	NA	BLE 5.0	NA
CT/VT	Configurable via RS485	Configurable via RS485	Configurable via RS485
Interfaces			
Analogue Input	NA	NA	NA
Digital Input	NA	NA	NA
Digital Output	NA	NA	NA
Counter Input (0-1000 Hz)	NA	NA	NA
Hour Meter	NA	NA	NA
Display			
Screen	NA	NA	Colour TFT 3.5 inch (320*480)
Additional Features			
Transient Analysis over WIFI	NA	NA	NA
Titan mobile app	NA	Android and iOS	NA

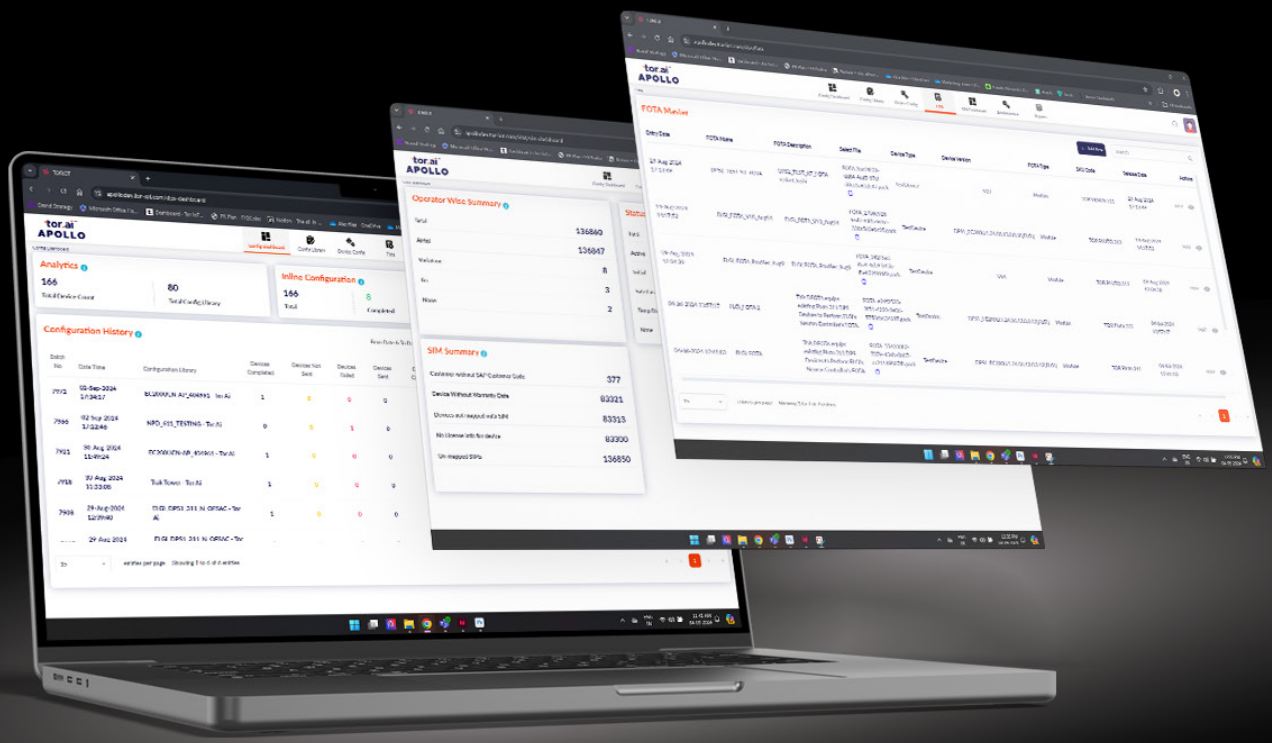
Model Number	Titan 312	Titan 313	Titan 411
Electrical			
Voltage Range	50V - 500V	50V - 500V	50V - 500V
Aux Power Supply range	65V - 450V AC/DC supply	65V - 450V AC/DC supply	65V - 450V AC/DC supply
Current Range	0.05A - 5.0A (20% Overload)	0.05A - 5.0A (20% Overload)	0.05A - 5.0A (20% Overload)
Frequency	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
Accuracy Class	0.5S	0.5S	0.5S
Short time over current	200% for 10 Sec	200% for 10 Sec	200% for 10 Sec
Compliance			
Standadrds	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31	IS 14697, IS 13779, IEC62052-11, IEC62053-22, IEC62053-23, IEC 61010, IEC 62053-31
Mechanical			
Dimensions (W*H*D)	96*96*41 mm	96*96*41 mm	96*96*41 mm
Weight	0.5Kg	0.5Kg	0.5Kg
Enclosure	Polycarbonate	Polycarbonate	Polycarbonate
Terminals	Plug In	Plug In	Plug In
Mounting	Panel Mounting, Din rail (Optional)	Panel Mounting, Din rail (Optional)	Panel Mounting, Din rail (Optional)
Environmental			
IP	IP54(front facia) ; IP 20 (at terminals)	IP54(front facia) ; IP 20 (at terminals)	IP54(front facia) ; IP 20 (at terminals)
Insulation	min 10 MOhm	min 10 MOhm	min 10 MOhm
Impluse withstand			
Operating Temp	10 to 75 deg C	10 to 75 deg C	10 to 75 deg C
Storage Temp	0 to 85 deg C	0 to 85 deg C	0 to 85 deg C
Humidity	95% RH	95% RH	95% RH
Communication			
Modbus	RS 485	RS 485	RS 485
Baudrate	9600 to 115200 settable	9600 to 115200 settable	9600 to 115200 settable
WIFI	IEEE 802.11 Wireless network	IEEE 802.11 Wireless network	IEEE 802.11 Wireless network
BLE (Bluetooth Low Energy)	BLE 5.0	BLE 5.0	BLE 5.0
CT/VT	Configurable through Joystick and BLE	Configurable through Joystick and BLE	Configurable through Joystick and BLE
Interfaces			
Analogue Input	NA	2 Numbers (0-500 ohms and 4-20mA)	2 Numbers (0-500 ohms and 4-20mA)
Digital Input	NA	2	2
Digital output	NA	2	2
Counter Input (0-1000 Hz)	NA	1 (based on DI)	1 (based on DI)
Hour Meter	NA	3 Numbers (1 voltage based, 1 current based, 1 DI based)	3 Numbers (1 voltage based, 1 current based, 1 DI based)
Display			
Screen	Colour TFT 3.5 inch (320*480)	Colour TFT 3.5 inch (320*480)	Colour TFT 3.5 inch (320*480)
Additional Features			
Transient Analysis over WIFI	NA	NA	1 sample @20 msec over WIFI R,Y,B phase voltages R,Y,B phase currents Phase wise power factor Phase wise Vthd Phase wise Ithd
Titan mobile app	Android and iOS	Android and iOS	Android and iOS

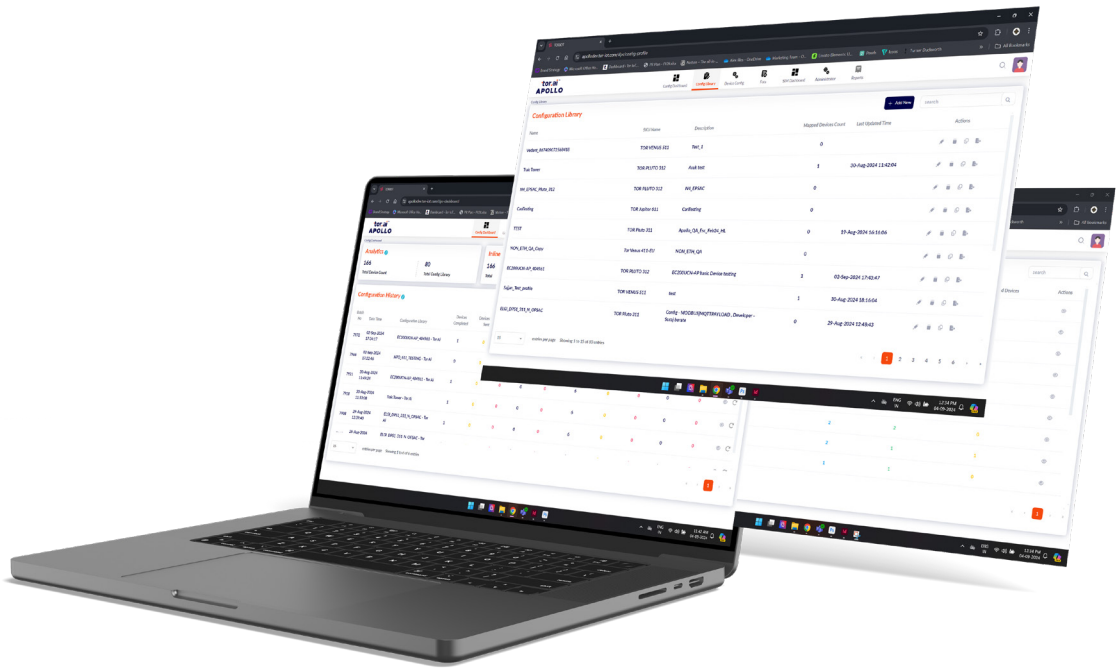



tor.ai
Analytics
988
Total Device Count
153
Total Config Library
Inline Configuration
988
Total
542
Completed
321
Not Sent
105
Sent
8
Failed
Configuration History
Export

Tor Apollo

Device provisioning system





Tor Apollo is a state-of-the-art Device Provisioning System or a configurator designed to simplify gateway configuration, intended for the use by OEMs and system integrators

Device Connectivity and Configuration

Customize device settings such as network configurations, security protocols, and operational parameters according to your specific requirements

Gain control over all of your deployments

Monitor remotely configs to optimize device performance, troubleshoot issues, and efficiently perform routine maintenance tasks

Change Logs and Audit Trail

Keep track of all configuration changes with a detailed change log, providing transparency and accountability

Enable your infra for remote updates

Seamlessly update peripheral devices' firmware and software over the air, ensuring devices are always up-to-date with the latest features and security patches

Contact Us

Start your Digital Transformation Journey today

Ready to learn more about Tor and see it in action? Request a demo to know more about our capabilities.

Tor.ai Limited

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