



MeerkatTM

An Edge IIoT Gateway



Our Edge IIoT Gateway **Meerkat**. We redesign & reimagine IIoT so that you remain the same !

PRODUCT FEATURES (OPERATING CONDITIONS: 24VDC, -20 DEG. TO 65 DEG. CELSIUS)

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|---|--|---|
| Processor & System Configuration | <ul style="list-style-type: none"> • CPU : Xtensa LX7 (240 MHz)/ NUC 980 (300 MHz) / STM32H7 (480 MHz) • RAM Memory: 8 MB / 128MB DDR/ 2MB • FCC, CE & Thermal Stress Test Certified | 1 1 1 |
| Serial Ports | <ul style="list-style-type: none"> • RS-485 (3.75 kV Isolation) • RS-232 (3 kV Isolation) • CAN 2.0 (2 kV Isolation) • Ethernet (10/100 Mbps) with IT-OT Isolation • USB-Type C (Firmware Upgrade) • USB 2.0 Type A FS OTG (500mA output) • Open Drain Optically Isolated Digital Inputs with 3.75 kV Isolation (GPIO) • Open Drain Optically Isolated Digital Outputs (GPIO) • On-board SD Card for local data store | 2 1 1 2 1 1 1 1 1 |
| Wireless Radio | <ul style="list-style-type: none"> • WIFI (802.11 b/g/n/LR WIFI Radio) • BLE (BLE 5.0 Radio) • Cellular (2 SIM Card Slot with 2G/3G/4G LTE via mPCIe card) | 1 1 2 |
| Software & OS | <ul style="list-style-type: none"> • OS - freeRTOS, Linux, Zephyr • Protocol Support & pre-compiled libs for MQTTs (Secure MQTT), HTTPs, Modbus RTU/TCP, BACnet IP & BACnet MSTP, OPC-UA, DLMS-COSEM, CAN & CANopen, OCPP & Ethernet IP (In Development) • Secure Remote Over the Air Update (OTA) for Firmware Upgrades • Web UI on-board for config. settings & LUA scripting enabled | |
| Security | <ul style="list-style-type: none"> • Secure Boot Enabled • Encrypted executable code with device specific random key for code protection at rest • Data Encryption with device specific key • Encrypted key store protected against unauthorized read, including side loading of firmware with support for TLS 1.2/1.3 | |