

LIMITLESS
MONITORING AND
MANAGEMENT
ROOTED IN
INTELLIGENCE.
RADIX IoT.



MangoGT

MangoGT is a flexible appliance and server that enables bi-directional secure connectivity to a centralized Mango OS cloud.

It's also perfect for stand-alone applications. MangoGT comes with the full Mango Enterprise software application and all features pre-installed. From there you can choose your license based on your application need. The GT is ideal for applications with fewer than 1,000 data points and functions as an edge gateway device for communicating with subsystems or on-premise devices. The GT is well suited for applications that just require a plug and play setup. Wire, power, and connect directly to it from any browser or Mango Cloud instance.



FUNCTIONAL OVERVIEW



Built-in Edge Protocol Support: With BACnet, Modbus, MQTT, SNMP, DNP3, SQL, CSV Files, HTTP, and plenty of others



Time Series Historian: Store billions of historical values



Local Analytics: Perform analytics functions at edge or in the cloud



Reporting: Create fully customized reports that can be run manually or automatically



Automation + Alarming: A robust data-driven alarming and event engine that is totally customizable



System Scalability / Cloud Native: From a simple standalone application to a global footprint of thousands, Mango scales to any application



Advanced Schedules With Exception Calendar: A flexible scheduler allowing refined automation with the capability of exception rules



Leading Edge Data Visualization: Mango provides a flexible UI development platform for visualization of your data on your terms, while also being mobile native

HARDWARE FEATURES AT A GLANCE

- Fan-less solid state design
- Two USB ports, two RS-485 ports, and a full-sized HDMI port
- Single ethernet port for local device connections or internet for connection to Mango OS Cloud
- Low power consumption of 2-5 Watts at 12-24V AC or DC
- Simple cloud based on-boarding and configuration
- Protocol support for prevailing building systems and protocols
- Local storage for data caching
- Mango OS Enterprise native for mass location deployment and management

THE RADIX IoT APPLIANCE

Local Device Network/ Data Acquisition

Serial / Ethernet



- Modbus IP
- Modbus Serial
- BACnet IP
- BACnet MS/TP
- MQTT
- HTTP
- ...and many more

Cloud Connection

Ethernet
Primary Data Connection



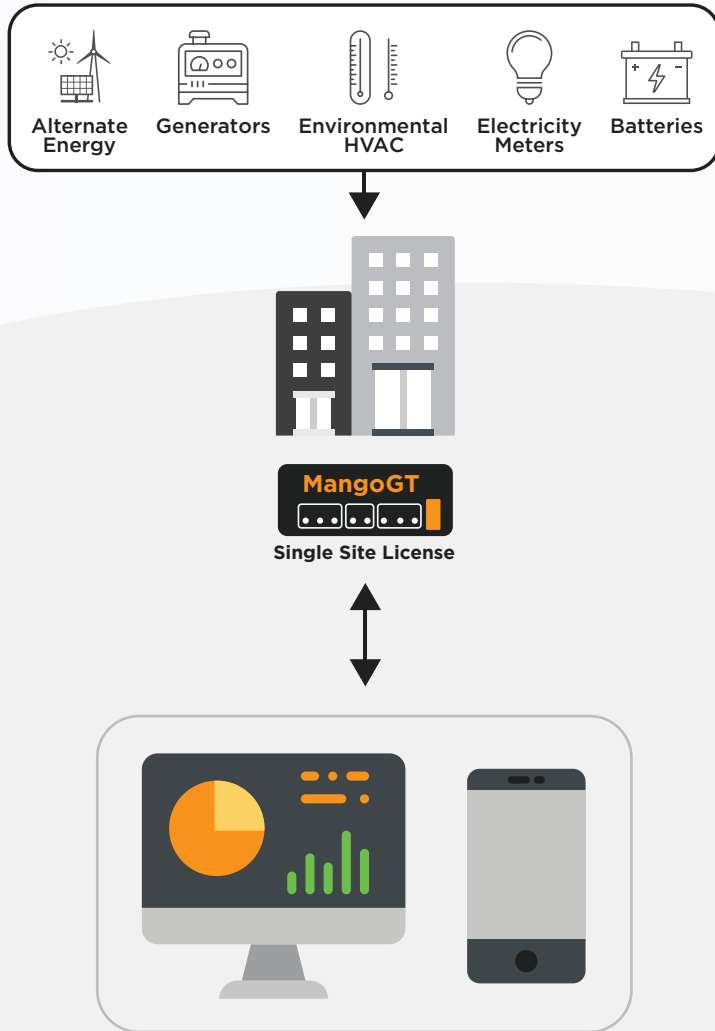
Analytics Providers via RestAPI



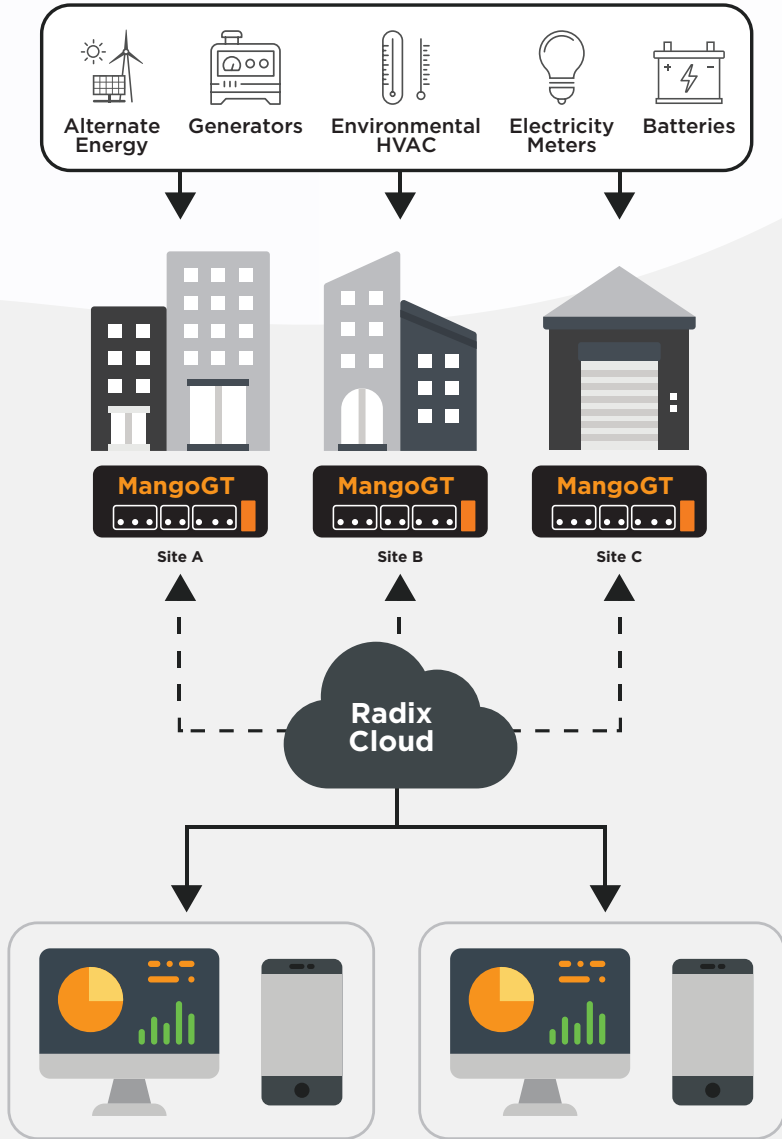
Other Mango Instances Globally

TOPOLOGIES

Single Site



Multiple Enterprise



SPECIFICATIONS

Standard Color	Black	
Construction	Injection molded plastic	
CPU	ARM Quad Core 1.2GHz	
Part Number	RD100	
System Memory	1GB	
I/O	Serial Port	2 x 485 (COM 1/2) with Terminal Connectors Native Protocols: BacNetMS/TP, ModBus RTU, and others See RadixIoT.com for further serial protocol options Supports Auto Flow Control in RS-485 mode
	USB	2 x USB 2.0
	RTC	No battery, there is a capacitor
	Local Storage	16GB EMMC
	LAN Ethernet Ports	1 x 10/100 Mbps Ethernet (WAN / LAN - Cloud Service Connection)
	Power Input	DC terminal block: 12 - 24V DC-In / AC
	Wireless	None. Field configurable USB wireless is available
	Video	HDMI for local HMI display capability

System Indicator	Power, active, COMs (TX/RX)
Power Supply	Power Input Rating: 12 - 24 DC/AC, 2-5W
Operating Temperature	0 - 70C (+32F - +158F) *The frequency of CPU will degrade when system operating temperature over +40°C
Humidity	10% - 95%, non-condensing
Warranty	1 year
Mounting	DIN-rail, wall mount
OS Support	Mango OS
Remote Software	Mango Cloud Engine
Weight	0.31 kg / 11 oz
Dimensions	45mm (1.77") (W) x 101mm (3.98") (H) x 119mm (4.69") (D)

