

LIMITLESS
MONITORING AND
MANAGEMENT
ROOTED IN
INTELLIGENCE.
RADIX IoT.



RD 201C Edge IoT Appliance

The RD 201C is an industrial IoT Appliance allowing cloud data collection and enterprise edge connectivity within buildings utilizing the facilities.

The RD201C Edge Appliance allows for simple deployment into a range of edge applications that require considerable data harvesting or control. The unit offers a myriad of connections and protocols or any applications, and also supports camera-based surveillance as an option as well as the possibility of redundant cellular as an option for mission-critical applications.



FUNCTIONAL OVERVIEW



Low power Braswell Intel® Pentium® N4200 1.1 GHz quad-core processor with 8GB system memory, delivering high performance and low power consumption for mass data acquisition needs from a variety of subsystems within facilities.



Complete digital connectivity to individual subsystems via two Gigabit LAN ports, two RS-232/422/485 ports, two USB 2.0 ports, four USB 3.0 ports, and an opto-isolated DIO interface.



Quickly commissions via the web interface native connectivity to BACnet/IP, BACnetMS/TP, LonWorks, Modbus RTU/TCP, Serial, and plenty of other protocols for communications.



The Mango Cloud platform consolidates, tags, and formats all the harvested data into a single source API allowing remote analytics and visualization platforms to access the entire data collection.



Redundant Capable Global Cellular allowing for data backhaul via worldwide cellular networks when Ethernet is not a possibility. Additionally, the unit optionally supports dual cellular for redundancy.



Camera support, easily integrate surveillance capabilities of up to five cameras using Mango OS into the RD 201C as well as access control solutions.

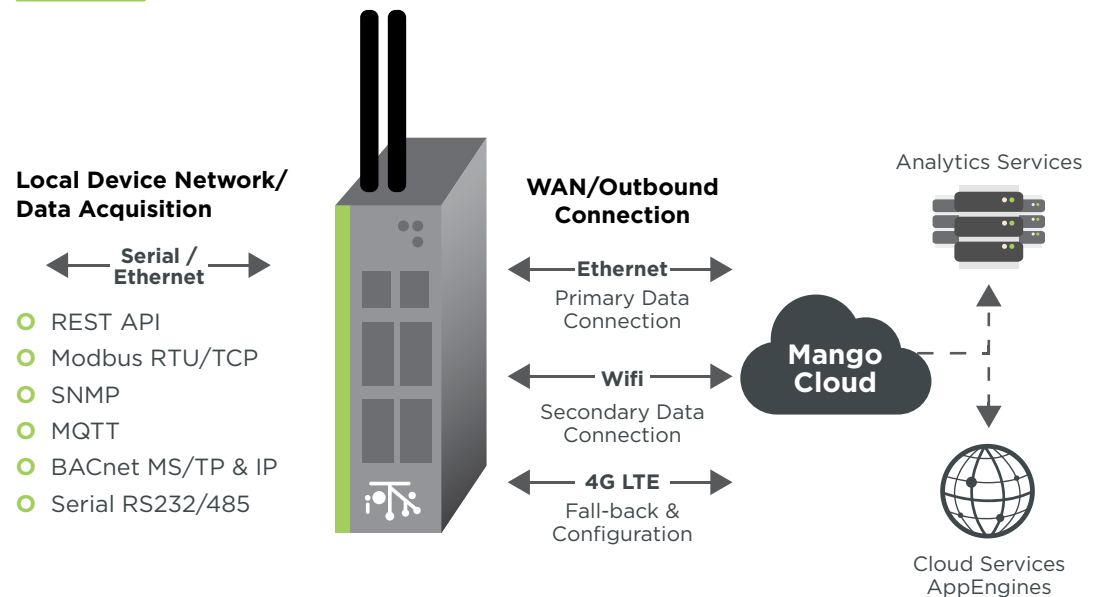


GPS Native allowing the units to report back geolocation information.

HARDWARE FEATURES AT A GLANCE

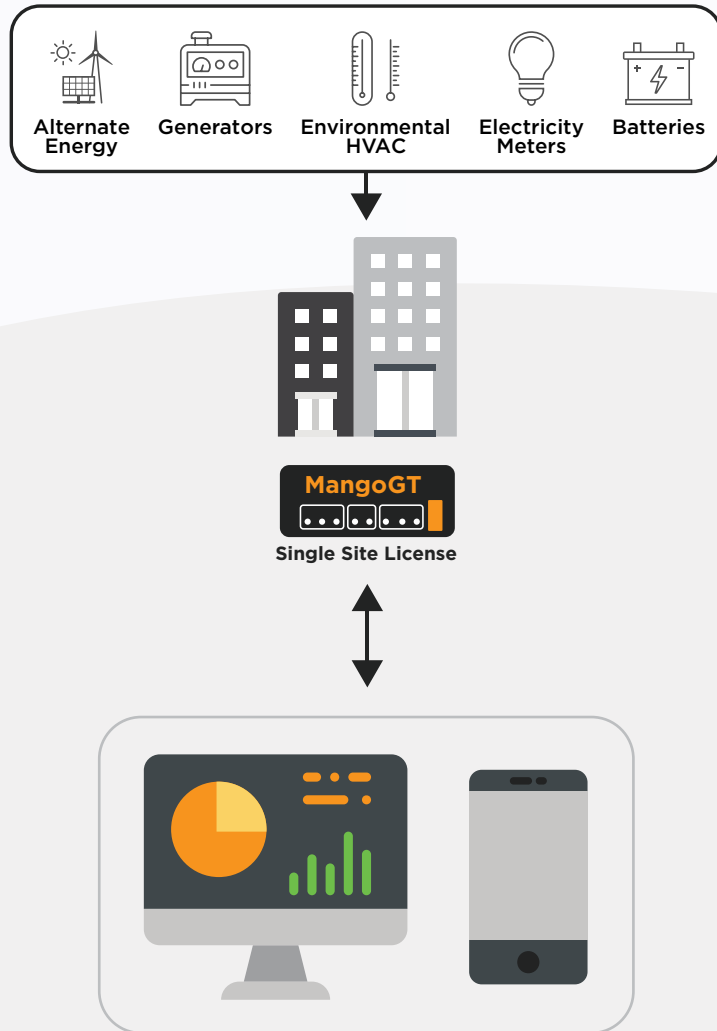
- Fan-less industrial design for long service life
- Multiple opto-isolated serial connections and USB 3.0 support
- Global cellular native, with an optional backup transceiver
- 12/24VDC powered via terminal connectors
- Simple cloud-based onboarding and configuration with Mango OS or Radix OEM OS
- Protocol support for prevailing building systems and protocols
- Unified RestAPI support for edge data device aggregation
- Integral GPS for location analytics
- 128GB SSD Local storage for data caching
- Two Gigabit LAN/WAN ports

THE RD 201C EDGE IoT APPLIANCE

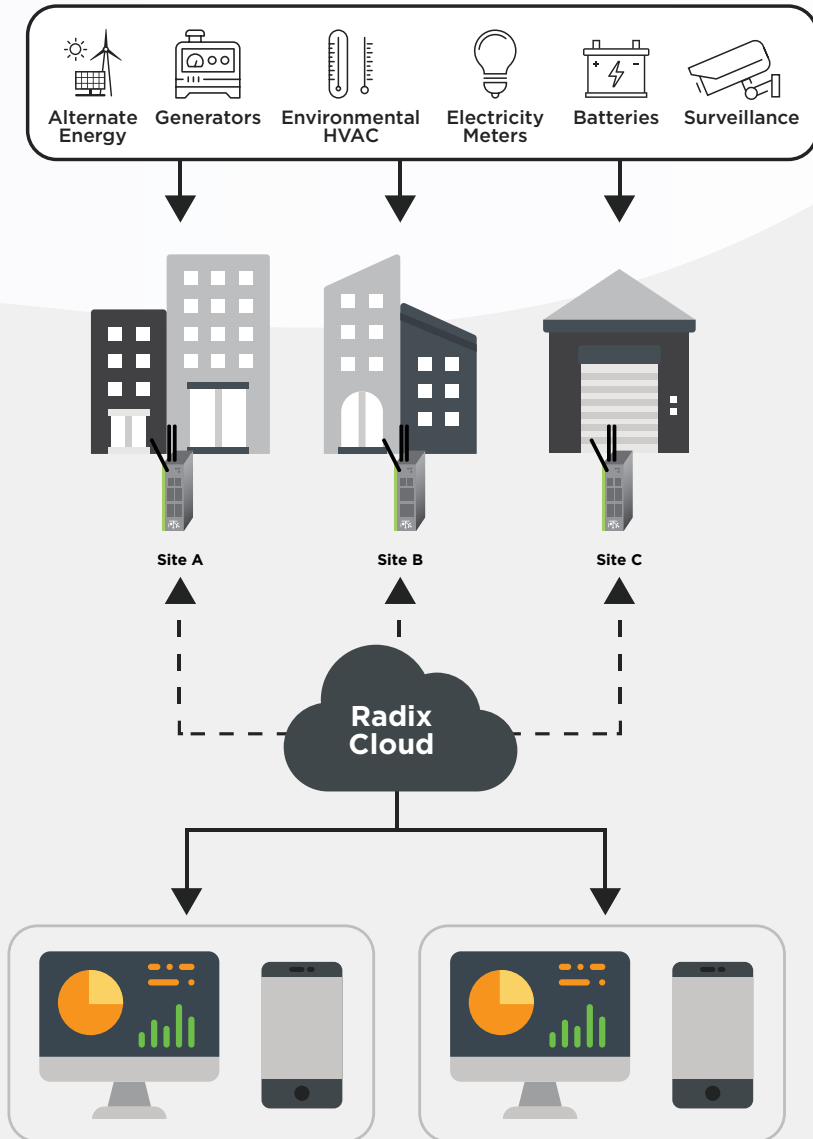


TOPOLOGIES

Single Site



Multiple Enterprise



SPECIFICATIONS

Standard Color	White	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Intel® Pentium® processor N4200 (1.1 Ghz)	
Part Number	RD201C	
System Memory	8GB DDR3L 1866Mhz	
BIOS	AMI UEFI BIOS	
I/O	Serial Port	4 x RS232/422/485 (COM) with DB9 Connectors Native Protocols: BacNetMS/TP, ModBus RTU See Radixiot.com for further serial protocol options Supports Auto Flow Control in RS-485 mode
	USB	4 x USB 3.0
	RTC	Battery on-board
	Local Storage	SSD 128GB - SATA III 6.0GBit/s
	LAN Ethernet Ports	1 x 10/100/1000 Mbps Ethernet (WAN - Cloud Service Connection) 1 x 10/100/1000 Mbps Ethernet (LAN - Local Device Network)
	Power Input	DC terminal block: 12 - 24VDC Input (Power supply not included)
	Cellular	4G/LTE Global Compliant Cellular Standard. Optional secondary transceiver ^A
	DIO	1 x DI/DO (8-Bit Programmable DB9 Female Connector) TTL - 5V External isolation required DIO programming operation: - I/O sink current 10mA - Individual Input/Output programming
Options	RD201WM - Wall Mount Adapter RDCPM - Panel Mount Cellular Antenna Alternative RDGPSANT - Magnetic Mount GPS Antenna RD201DC - Dual Global Cellular	
^A Services fees apply per month for cellular connectivity		

Integral Watchdog	Timer based: 255 levels, 1 to 255 sec.
System Indicator	Power, active
Power Supply	Power Input Rating: 12 - 24VDC, 2.82-1.34A
	Power Protection: DC Version with Over Voltage Protection +20% Reverse polarity protection
Operating Temperature	-20°C - +70°C (-4°F - +158°F)
Humidity	0% - 95%
Vibration Endurance	2 Gms (5 - 500Hz, amplitude 0.35 mm; operation/storage/Transport)
Certificate	CE, FCC Class A
OS Support	BBOS
Remote Software	Radix Engine, and Mango OS
Mounting	DIN-rail, wall mount
Weight	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)

