

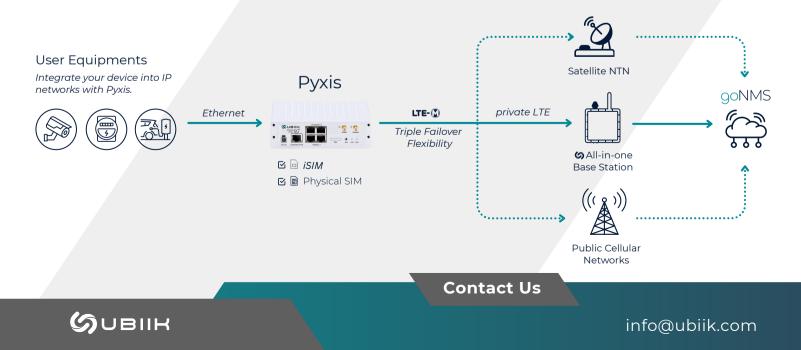
Pyxis50



Pyxis 5G LPWA is a single radio LTE-M router with dual SIM (iSIM + physical SIM) compatible with standard LTE bands, LTE ISM-FDD band, and NTN bands. The router has been built to withstand the elements and brings secure connectivity right to the edge of the grid. Supporting a range of Utility applications such as SCADA, DER and distribution automation, Pyxis 5G LPWA is the ideal endpoint for existing public network, pLTE networks, or Ubiik's freeRAN™ and goRAN™ pLTE systems. With its powerful platform and extensive interfaces, it offers enough power to support computing at the edge and enough interfaces to connect with non-IP equipment, making it the ultimate choice for future proof deployment of private LTE Utility networks.

THERNET

UBIIH Pyxis 5G



Features

- LTE-M is a 5G LPWA standard tailored for IoT deployments long range and low power.
- Semtech HL7845 module with Power Class 2 (+26 dBm) for extended coverage range
- Power-Over-Ethernet (PoE) offers flexibility to deploy without the need for an AC adapter
- Compatible with goNMS, Ubiik remote Network Management Solution, it provides end-to-end visibility and management of the whole network through a single web interface, deployed either in the Cloud or onpremises
- Powerful platform built on Qualcomm dual-core ARM process to enable edge computing and bring intelligence at the edge

LTE-M

375 Kbps

375 Kbps

Semtech HL7810 / 7845

1x iSIM & 1x nano – 4FF

85, 106, 111, 255, 256, ISM-FDD HL7845 1, 3, 5, 8, 20, 28, 31*, 72*, 73*, 87, 88

1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20*, 23, 25, 26, 28, 66,

Cat M1

HL7810

Specifications

Peak Downlink (theoretical)

Peak Uplink (theoretical)

Regions

Worldwide

Technology

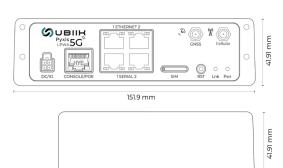
LTE Category

Radio Module

4G LTE Bands

SIM

Cellular Radio



123.7 mm

Wireless Certification

Regulatory

FCC/ISED

Platform

LAN & WAN

Firewall

configuration

Dual-core ARM 64bit A53@1.0GHz processor 8GB eMMC + 512MB DRAM

Dimensions	
W×L×H	123.7 x 151.9 x 41.91 (mm) 4.87" x 5.98" x 1.65" (inches)
Weight	0.77 kg / 1.7lbs

DHCP or Static IPs

Application Layer Gateway UPnP and NAT-PMP

Zero-Touch Provisioning

NAT APN

VLAN

QoS DNS

mDNS DNS-SD

Port forwarding Traffic rules

	* Supports +26 dBm output power		
Transmit Power	+23 dBm / +26 dBm		
Power		Environmental	
Power input 9-15 VDC Power Over Ethernet (PoE) – IEEE 802.3AF on console port	Operating temperature Storage temperature	-40F to +149 F / -40C to 65C	
	•	0 1	
Power consumption	3.48 W typical (Idle) 5.14 W typical (peak Tx/Rx)	Relative Humidity	5% to 90% (non-condensing)
Connectors		Network & Routing	

RF Connectors

Interfaces

1/0	1 GPIO – 2 pins	
Ethernet	2x 1Gbps ports (RJ45)	
Serial	2x RS232 / 485 (RJ45)	
Console port	1x shared with PoE	
LEDs	1x for system power	
	1x network connection status	
Reset button	lx	

2x SMA (LTE, GNSS)

Management Interfaces

Management Interfaces			DoS Prevention DMZ Host One to One NAT GRE tunneling Soft and hard reset Real time graphs Serial ports configuration
Local management	Web User Interface (HTTP/HTTPS), Command Line Interface -CLI- (SSH)		
Remote management (requires separate license)	goNMS SNMP V2/v3	Router Monitoring	
Software update	Support Over-The-Air (OTA) or through local interface		