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LoRa Alliance Member

TEMPO Tablet

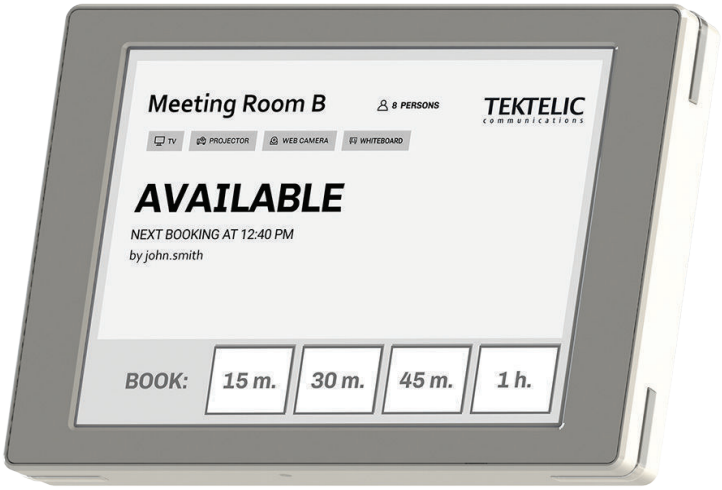
Easily and Efficiently Track and Manage Meeting Room Occupancy Status and Bookings

The TEKTELIC TEMPO Tablet is the first of its kind to utilize LoRaWAN® to provide a simple and effiicient solution to monitor and manage room occupancy, coordinate and book meetings, and analyze statistical data. Fully integrated with TEKTELIC's Smart Room Sensors, the platform will display real time occupancy status, allowing users to save time and effort with full visibility to the room's availability.

- Smart Office
- Optimized Room Utilization
- Schools & Universities
- Public Libraries
- Laboratories
- Vaccine Storage

Attributes

- Option 1: 12 Month Battery
- Option 2: Externally Powered (POE or 5VDC Barrel)
- Stand Alone Solution
- Integrated with Outlook, Google etc.
- KONA Smart Room Sensor Integration
- Provides Rich Analytics
- Ideal for Small, Medium, Large Offices



Product Specifications

Operational Temperature	0°C - 40°C
Ingress Protection	IP30
Size	157mm x 112.4mm x 24.5mm
Battery	4AA 12 months (for typical use)
RF Power	15 dBm
RF Sensitivity	-137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A (Class B in future)

TEKTELIC Communications is a premier supplier of best-in-class LoRaWAN® IoT Gateways, Sensors, and Custom Applications. These elements combined provide a powerful end-to-end solution that can be easily, quickly, and cost effectively deployed to address the most demanding IoT challenges.

For more information please visit www.tektelic.com

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VIVID Smart Room Sensor PIR

LoRaWAN® connected Home and Office Environment Monitoring

TEKTELIC VIVID integrates practical functionality into a very small form factor. The VIVID is an ideal solution for holistically monitoring the home and office environment. The device is capable of measuring and reporting temperature, humidity, light, movement, motion, shock, detecting open / closed doors and windows. It also supports battery status updates for easy maintenance.

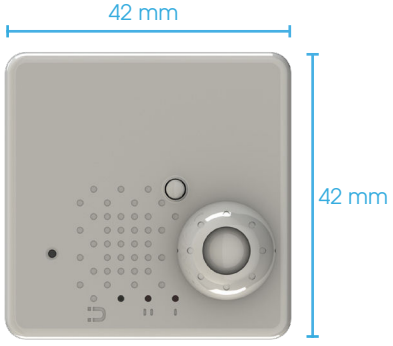
- Smart Home & Office
- IndoorEnvironment Monitoring
- Room Occupancy
- Facility Management
- Desk Occupancy
- Point of Entry Security
- HVAC Optimization

Features

- User Configurable Parameters and Thresholds
- Designed for Optimal Battery Life
- Multiple PIR Masking Options
- Long Battery Life
- Wall, Ceiling or Table Mount Configurations
- Simple Deployment
- Sleek and Unobstrusive Design

Applications

- Movement Detect (Doors, Windows, Drawers)
- G-Force Measurement (Settable Trigger)
- Motion Detection
- On / Off External Contact
- On / Off Internal Magnetic Switch
- Pulse Reading (Water, Gas, other metering)
- Light Detection (On / Off)
- Temperature Measurement
- Humidity Measurement



INFO@TEKTELIC.COM

+1.403.338.6900

WWW.TEKTELIC.COM

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VIVID Smart Room Sensor PIR

LoRaWAN® connected Home and Office Environment Monitoring

Technical and Functional System Specifications

General System Parameters

Operational Temperature	0°C to 60°C (10°C to 40°C optimal)
Storage Temperature	-30°C to 60°C (0°C to 30°C optimal)
Relative Humidity-Operational	5% - 95% Non-Condensing (Operational)
Ingress Protection	IP30
Size	42 x 42 x 26 mm (enclosure)
	42 x 42 x 27 mm (with bracket)
Weight (including batteries)	28g
Battery	CR2477
External Connector (Base Variant)	Connector Type: JST A02ZR02ZR28H305B
	≤ 20Hz (Pulse Reading)
	Driven by open drain/relay contact

Wireless Parameters

RF Power	14 dBm
RF Sensitivity	up to -137dBm
LoRa Radio	SX1261
Supported ISM Bands	NA915, EU868, EU433, AU915, AS923
	CN470, CN779, IN865, KR920, RU864
Antenna	Internal
LoRa Device Class	A

Sensor Variants

Sensor Function	PIR Variant	Base Variant
Motion Detection (PIR)	✓	
On/Off Magnet switch	✓	✓
Moisture/Leak Detection		✓
Accelerometer	✓	✓
G-Force Measurement	✓	✓
On/Off External Contact		✓
Light Detection	✓	✓
Temperature	✓	✓
Humidity	✓	✓

Optimized Battery Life (Years) - CR2477

Operational Temperature	20°C
Tx Power	14 dBm
Rx Cycle/Hour	1

Variant	Transmission	SF 10 125 kHz	SF 7 125 kHz	SF 8 500 kHz
Base	4 packets / hour	4.8	11.2	13.0
	3 packets / hour	5.9	12.5	14.1
	2 packets / hour	7.8	14.1	15.5
	1 packets / hour	11.0	16.3	17.1
	1 packets / day	18.5	19.0	19.1
PIR	4 packets / hour	2.2	4.0	4.4
	3 packets / hour	2.5	4.3	4.6
	2 packets / hour	3.0	4.6	5.0
	1 packets / hour	4.0	5.1	5.3
	1 packets / day	5.5	5.5	5.6

PIR Detection Range (Wall Mount)

X Angle	70°
Y Angle	20°
Z Range	5 m

PIR Detection Range (Ceiling Mount)

X Angle	70°
Y Angle	84°
Height	3 m

* Assumes object in center of field of view

Regulatory Compliance

Safety	IEC 60950-1 (CE)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
	FCC 15.247 FCC 15.209

Specifications subject to change without notice.

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KONA Micro IoT Gateway

Enterprise LoRaWAN® Gateway for Mission Critical Deployments

The KONA Micro IoT Gateway is designed for enterprise and lightweight industrial applications that require "Always On" connectivity. Configured with an internal 3G/4G modem and a built-in battery backup, the KONA Micro IoT gateway continues to operate and transmits sensor data to the network even when the main site has lost power.

- Smart Home & Office
- Smart Buildings
- Warehouses
- Smart Greenhouses
- Facility Management
- Safety & Security
- Schools & Universities
- Retail

Key Product Differentiators

- Enable critical enterprise IoT applications with 'Always On' connectivity. Battery backup and an integrated 3G/4G modem.
- Reduce set up costs with plug-n-play installation using a custom provisioned factory image.
- Improve coverage and service resulting in increased IoT application adoption and customer satisfaction.
- Simplify management with the KonaFT OAM tool.
- Operational status indicated with multi-function LED.
- Fully integrated with the broader eco-system of LoRa™ network servers and sensors.

Key Features

- NA 915, EU868, AUS923, JP920 ISM Bands
- Four Hour Battery Backup
- Time Duplex 8 Rx / 1 Tx
- Integrated Cellular 3G/4G Modem
- External LoRa Antenna
- Operational Status LED
- 27 dBM Tx Power
- Plug - n - Play Operation
- Factory Image for Mass Deployment
- In-Service Updates

INFO@TEKTELIC.COM

+1.403.338.6900

WWW.TEKTELIC.COM

2023-03-24 | YV

KONA Micro IoT Gateway

Enterprise LoRaWAN® Gateway for Mission Critical Deployments

Technical and Functional System Specifications

Mechanical Parameters

MTBF	830,000 hours
DC Power Consumption	< 7 W
Operational Temperature	0°C to +40°C
Operational Humidity	5% to 95% Condensing
Ingress Protection	IP30
Size	115 x 115 x 40 mm
Weight	350 g (<200 g without battery)

LoRa Radio Parameters

ISM Bands	NA915, EU868, AS923, JP920, CH779
Tx Power	14 dBm to 27 dBm
Rx Sensitivity	-139.5 dBm (SF12, 293 bits/sec)
Rx Noise Figure	3.5 dB
Rx Linearity	-10 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital

Software and Management

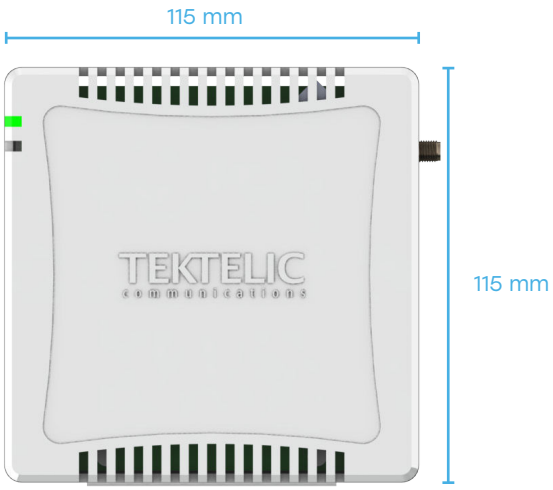
Tools	Access Control List managment
	3G/4G Parameter Configuration
	System Health Monitor
	Radio Configuration and Control
	Remote Software Upgrade
	Active and Passive image management
	Factory image provisioning
	Field Configuration Tool
Networking	DHCPv4 client
	TFTP server
	HTTP server
	Firewall and Access Lists

Interfaces

Ethernet Backhaul	RJ-45 (10/100 BaseT)
Cellular Backhaul (3G/4G)	(internal antenna)
LoRa Antenna	SMA-RC
Power	12V / 1A Adapter

Regulatory Compliance

Safety	IEC 60950-1 (CE)
Environmental	ETSI EN 300 019-2
Regulatory	ETSI EN 55022 Class B
	ETSI EN 55024
	ETSI EN 300 489-1/-3



Cellular Carrier Certifications

Verizon
AT&T
T-Mobile
Sprint
PTCRB

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