

TEMPO Meeting Room Display 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 efficient 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



LoRa Parameters

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)

General System Parameters

Operational Temperature	+5°C to +40°C
Ingress Protection	IP30
Size	157 x 112 x 25mm
Battery	4AA 12 months (for typical use)

Regulatory Compliance

Safety	IEC 62368-1:2014
Regulatory	ETSI EN 300 220 -1/-2
	ETSI EN 301-489-1/-3
	FCC 15.109, 15.209, 15.247

Specifications subject to change without notice*.

Features

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

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

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
- Indoor Environment 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
- » Light Detection (On / Off)
- » Temperature Measurement
- » Humidity Measurement



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)	25g
Battery	CR2477

Optimized Battery Life (Years) - CR2477

Transmission	SF 10 125 kHz	SF 7 125 kHz	SF 8 500 kHz
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
Calculated under conditions			
Operational Temperature	20°C		
Tx Power	14 dBm		
Rx Cycle/Hour	1		

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

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

Sensor Capabilities

Motion Detection (PIR)
On/Off Magnet switch
Accelerometer
G-Force Measurement
On/Off External Contact
Light Detection
Temperature
Humidity

Regulatory Compliance

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

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KONA Micro IoT Gateway

Indoor 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

- » US915, EU868, AU915, AS923 ISM Bands
- » Time Duplex 8 Rx / 1 Tx
- » Integrated Cellular 3G/4G Modem
- » External LoRa Antenna
- » Four Hour Battery Backup
- » 27 dBm Tx Power
- » Operational Status LED
- » Plug & Play Operation
- » Factory Image for Mass Deployment
- » In-Service Updates

KONA Micro IoT Gateway

Indoor LoRaWAN® Gateway for Mission Critical Deployments

Technical and Functional System Specifications

Mechanical Parameters

MTBF	830,000 hours
DC Power Consumption	4.5 W (Typical)
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	US915, EU868, AU915, AS923, IL917, JP920 ISM Bands
Tx Power	14 dBm to 27 dBm
Rx Sensitivity	-141 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 management
	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

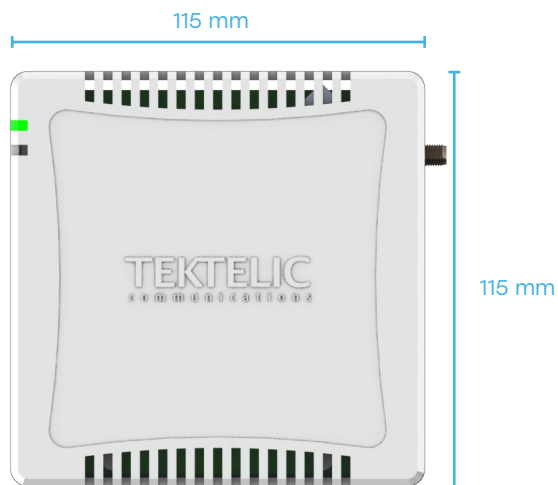
Ethernet Backhaul	RJ-45 (10/100 BaseT)
Cellular Backhaul (3G/4G)	internal antenna
LoRa Antenna	SMA-RC
Power	12V / 1A Adapter

Regulatory Compliance

Safety	UL / CSA / EN / IEC 62368-1
Regulatory	FCC: 15.247, 15.109, 15.209
	ISED: RSS - 247, RSS - Gen
	CE: RED 2014/53/EU

Cellular Carrier Certifications

Verizon
AT&T
T-Mobile
Sprint
PTCRB



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