digital matter

October 2022

Device Overview

www.digitalmatter.com

Our Devices

Cellular

Battery-Powered

- Yabby3
- Yabby Edge
- Oyster3
- Oyster Edge
- Remora3

OBDII and Wired

- Bolt2
- Dart3
- G70
- G120
- Hawk

LoRaWAN®

Battery-Powered

- Yabby Edge LoRaWAN
- Oyster3 LoRaWAN

Wired

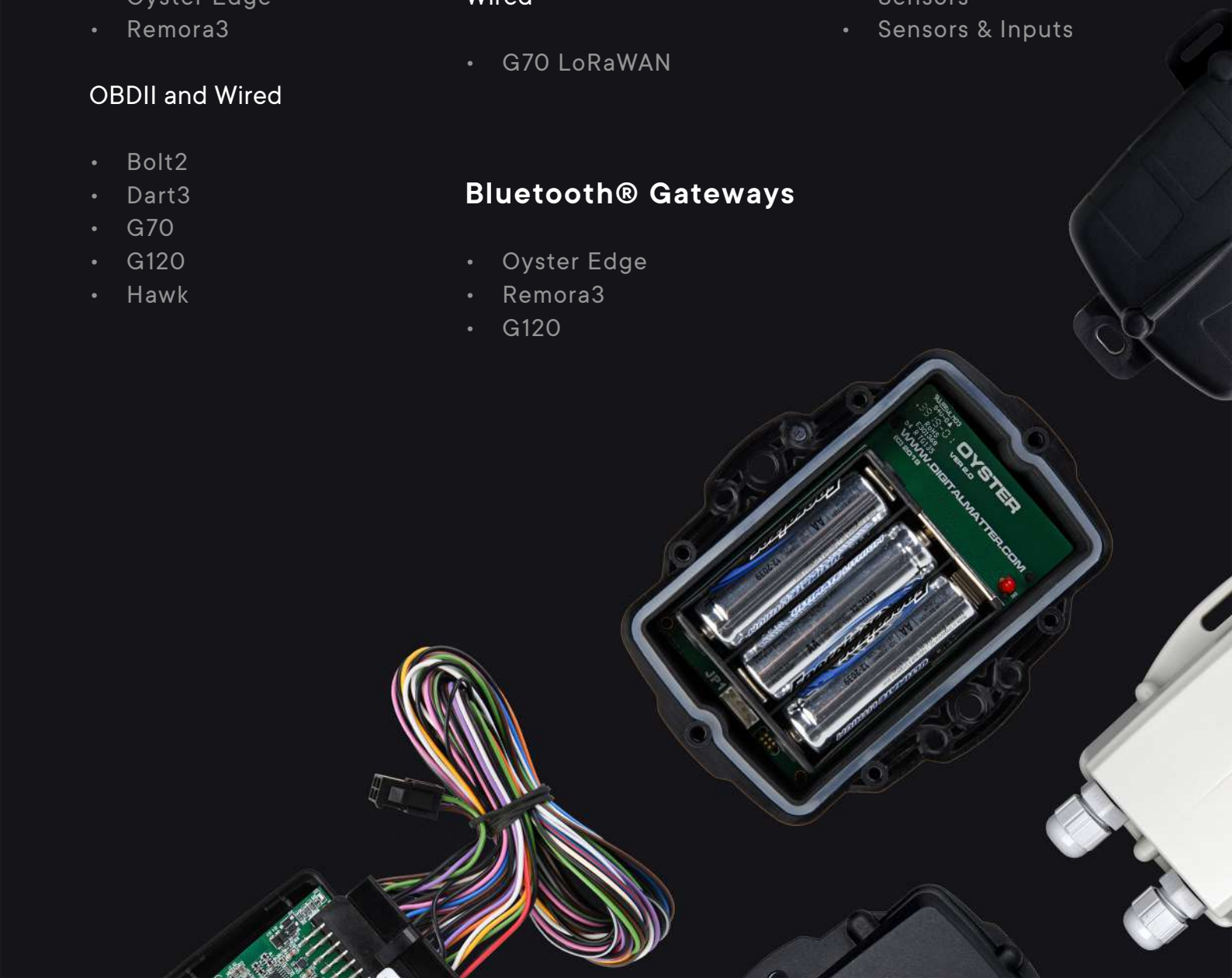
- G70 LoRaWAN

Bluetooth® Gateways

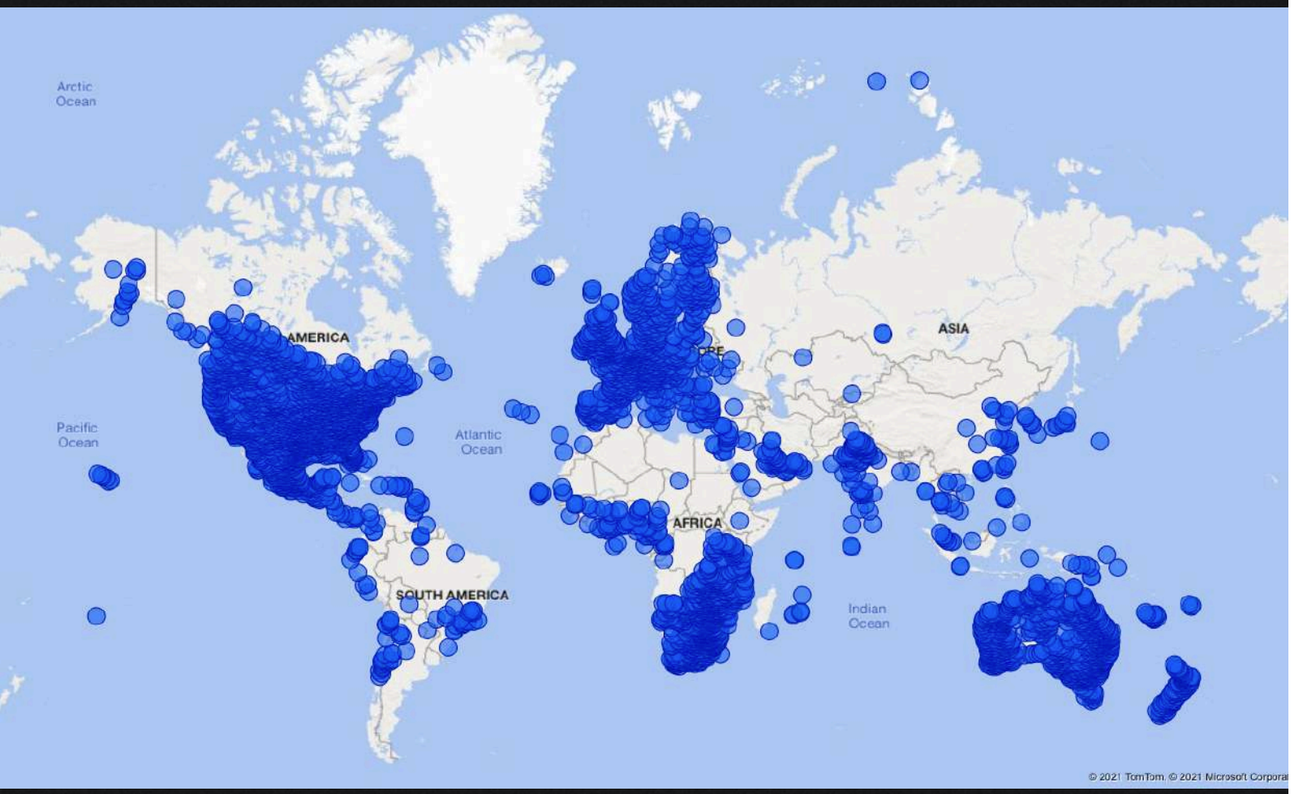
- Oyster Edge
- Remora3
- G120

Peripherals / Third-Party Support

- RFID Driver ID Reader
- iButton Driver ID Reader
- Bluetooth® Tags & Sensors
- Sensors & Inputs



About Digital Matter



Digital Matter device connections as of November 2021

Engineered to Outperform

1M+
Devices Designed & Manufactured

500+
Global Channel Partners

120
Countries With Active Device

1.5K
End Points

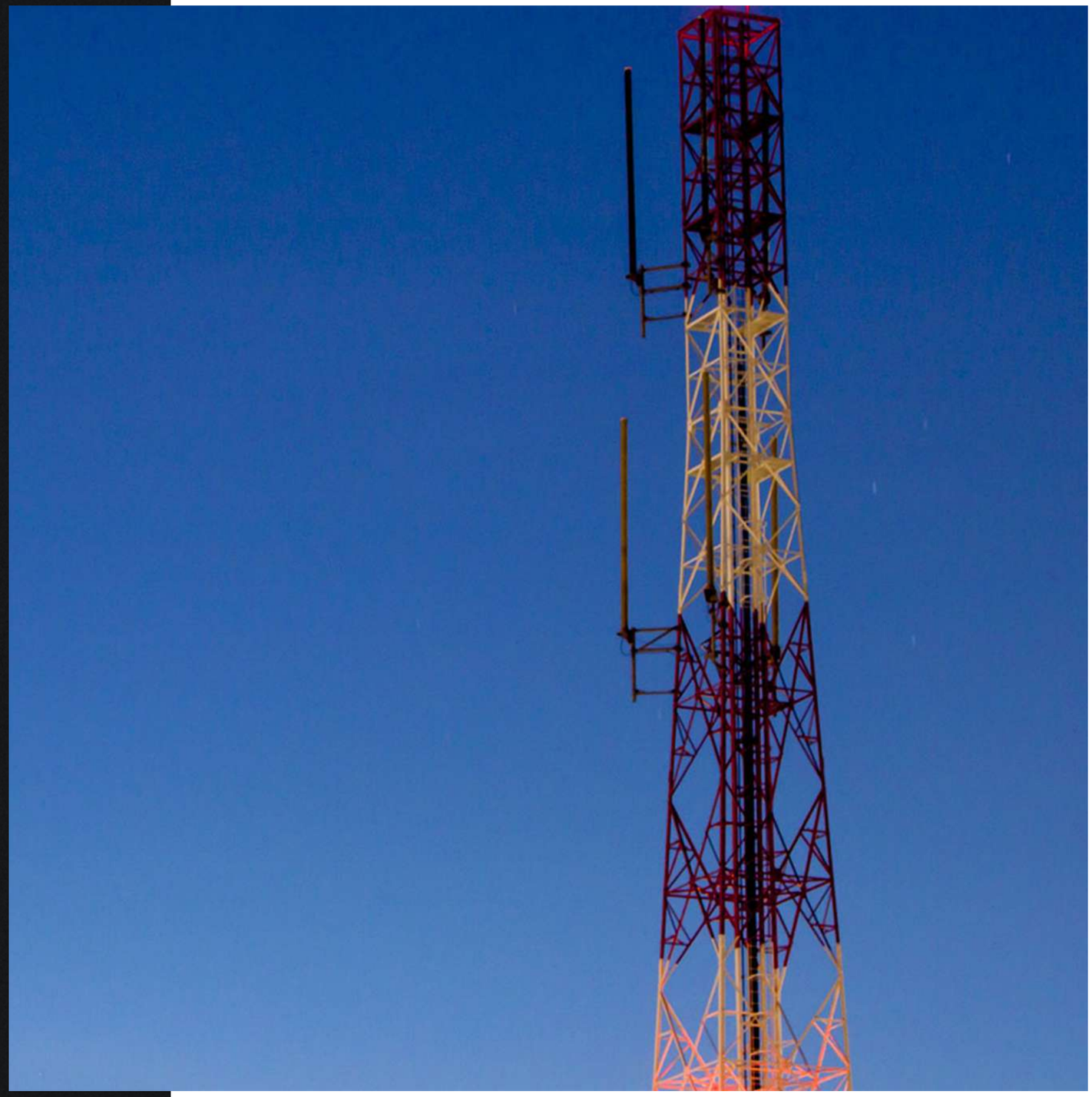
4
Global Offices

Digital Matter is a leading global developer of low-power GPS and IoT hardware for asset tracking and management applications. Engineered to outperform, we offer a versatile range of LPWAN asset tracking hardware with the largest portfolio of integration-ready battery-powered asset tracking devices across a range of connectivity technologies.

With 22 years of telematics experience and over 500 channel partners across 120 countries, Digital Matter supplies and supports scalable, and secure devices for Telematics Businesses, IoT Solution Providers, Enterprises and Network Operators around the world.

Cellular IoT Solutions

Cellular 2G and LTE-M (Cat-M1)/NB-IoT
Asset Tracking Solutions



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Futureproof your IoT Asset Tracking Solution

Build a better 4G/5G IoT asset tracking solution with the largest portfolio of integration-ready LTE-M (Cat-M1)/NB-IoT GPS asset tracking devices and the widest range of location technology options including GNSS, Wi-Fi Positioning, Cell Tower Positioning, and Bluetooth® Low Energy.

Futureproof

Both LTE-M and NB-IoT networks are now formally recognized as 5G technologies, which means the networks, and our LTE-M/NB-IoT devices will be supported long after 3G and even 4G network shutdowns.

Low-Power, Long Battery Life

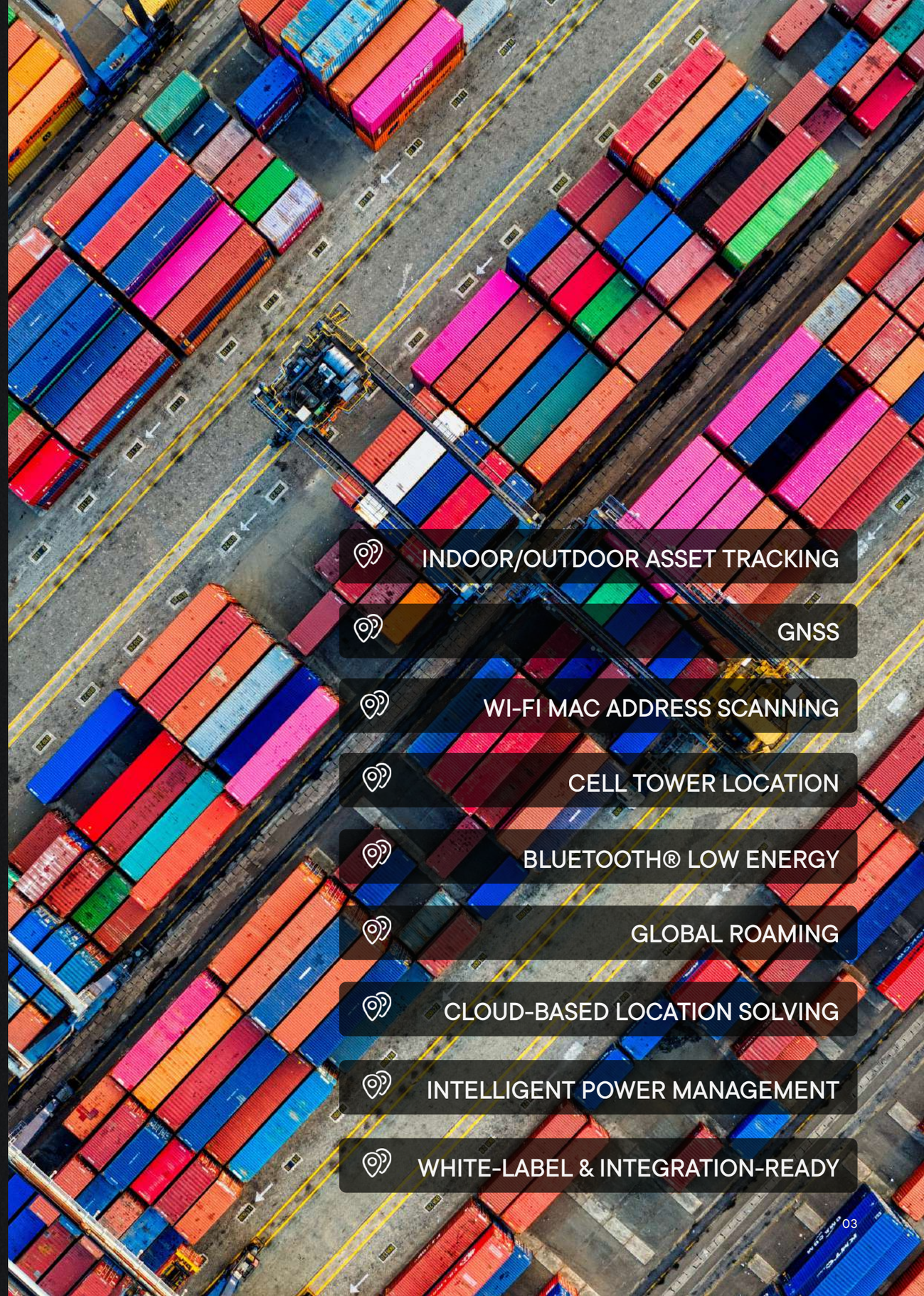
With incredibly-low power consumption (1/2 to 1/3 the power consumption of a 3G modem when performing a data upload,) our LTE-M/NB-IoT asset tracking devices feature ‘deploy once’ battery life – reducing OPEX costs for businesses by significantly reducing battery changes, device maintenance, and support costs.

Range and Performance

LTE-M/NB-IoT asset tracking devices offer excellent penetration for indoor and underground applications for industrial and urban assets.

Network Roaming

Our 4G device range supports automatic roaming between LTE-M and NB-IoT networks with minimal delay and marginal impact on battery life or performance (roaming SIM required) for global and regional asset management applications.



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Cellular

Battery-powered





	Yabby3	Oyster3	Remora3	Yabby Edge	Oyster Edge
Connectivity	LTE-M (Cat-M1) and NB-IoT	LTE-M (Cat-M1) and NB-IoT	LTE-M (Cat-M1) and NB-IoT	LTE-M (Cat-M1) and NB-IoT	LTE-M (Cat-M1) and NB-IoT
Example Use Cases	Small Equipment, Packages and Deliveries, Supply Chain, Logistics, Pallets, Carts, Trolleys, Livestock	Equipment, Bins, Containers, Supply Chain, Logistics, Wildlife	Large Equipment, Trailers, Supply Chain, Logistics, BLE Tag and Sensor Monitoring	Small Equipment, Packages and Deliveries, Supply Chain, Logistics, Pallets, Carts, Trolleys, Livestock	Equipment, Bins, Containers, Supply Chain, Logistics, BLE Tag and Sensor Monitoring
Environment	Outdoor	Outdoor	Outdoor	Indoor/Outdoor	Indoor/Outdoor
Size	85 x 63 x 24 mm (3.35 x 2.48 x .94”)	108 x 86 x 31 mm (4.25 x 3.39 x 1.22”)	224 x 91 x 41 mm (8.82 x 3.58 x 1.61”)	85 x 63 x 24 mm (3.35 x 2.48 x .94”)	108 x 86 x 31 mm (4.25 x 3.39 x 1.22”)
IP68 Rated	Yes	Yes	Yes	Yes	Yes
GNSS	Full	Full	Full	GNSS Scanning	GNSS Scanning
Wi-Fi MAC Address Scanning				Yes	Yes
Cell Tower Location	Advanced	Advanced	Advanced	Advanced	Advanced
Batteries	3 x AAA Lithium	3 x AA Lithium or Lithium Thionyl Chloride (LTC)	2 x D Lithium Thionyl Chloride (LTC)	3 x AAA Lithium	3 x AA Lithium
*Battery Life (Daily)	**10+ Years	**10+ Years	**20+ Years	**10+ Years	**10+ Years
*Battery Life (Movement-Based)	3 Years	6 Years	**10+ Years	3.5 Years	7 Years
*Battery Life (Hourly)	1.5 Years	3.5 Years	**10+ Years	2 Years	4.5 Years
Bluetooth®			Bluetooth 5.2 Gateway		Bluetooth 5.2 Gateway
Cloud-Based Location Solving				Yes	Yes
Location Precision	High	High	High	Med-High	Med-High

* Battery life estimates are based on LTE-M/NB-IoT Connectivity and influenced by several factors including temperature, installation location and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

** For battery life estimates over 10 years, please consider network technology availability and other factors such as battery manufacturer lifespan and self-discharge specifications.

Yabby3

LTE-M/NB-IoT

Compact and ultra-rugged battery-powered GPS asset tracker featuring 10+ years battery life

‘Deploy Once’ Battery Life

Over 10+ years battery life at once-daily location updates

User-Replaceable Batteries

Uses off-the-shelf 3 x AAA batteries

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

“Battery Low” and “Battery Critical” alerts

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK06-rated housing ensures device can withstand impact, fine dust, and brief submersion

Standard IP68

Dimensions - 85 x 63 x 24 mm (3.35 x 2.48 x .94)’’

Snap Housing (75 x 45 x 25 mm (2.95 x 1.77 x 0.98)’’ also available for smaller form factor (not IP rated). Livestock housing also available for securing device to animals.

Oyster3

LTE-M/NB-IoT

Next generation of our best-selling Oyster series - Ultra-rugged GPS asset tracking device featuring 10+ years battery life

‘Deploy Once’ Battery Life

Over 10+ years battery life on user-replaceable 3 x AA Lithium or Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

“Battery Low” and “Battery Critical” alerts

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

Standard IP68

Dimensions - 108 x 86 x 31 mm (4.25 x 3.39 x 1.22)’

Remora3

LTE-M/NB-IoT

Ultra-rugged, long-life battery-powered GPS asset tracking device and Bluetooth® Gateway featuring *20 years of battery life and tamper detect - **longest-lasting battery-powered device on the market**

'Deploy Once' Battery Life

Over *20 years battery life movement-based tracking, 2 years at most aggressive (second-by-second) tracking performance

Bluetooth® 5.2 Gateway

Reports on nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring applications

User-Replaceable Batteries

Uses off-the shelf 2 x D Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

"Battery Low" and "Battery Critical" alerts

Tamper Detect

Magnetic Tamper Detect

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

Standard IP68

Dimensions - 224 x 91 x 41 mm (8.82 x 3.58 x 1.61")

* For battery life estimates over 10 years, please consider network technology availability and other factors such as battery manufacturer lifespan and self-discharge specifications.

Edge Portfolio

Scale and diversify your IoT and telematics portfolio with the latest in Indoor/Outdoor LPWAN asset tracking technologies

Indoor/Outdoor Asset Tracking & Management

Performing where GNSS-only devices fail, Edge devices support multiple location technologies (GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location or LoRaWAN® Geolocation Fallback), enabling new and affordable Indoor-to-Outdoor asset management applications in key areas such as logistics and supply chain visibility, high-value pallet and package tracking, kegs and returnables tracking, emergency and hospital equipment management, bin, cart and trolley tracking, and more.

Cloud-Based Location Solving

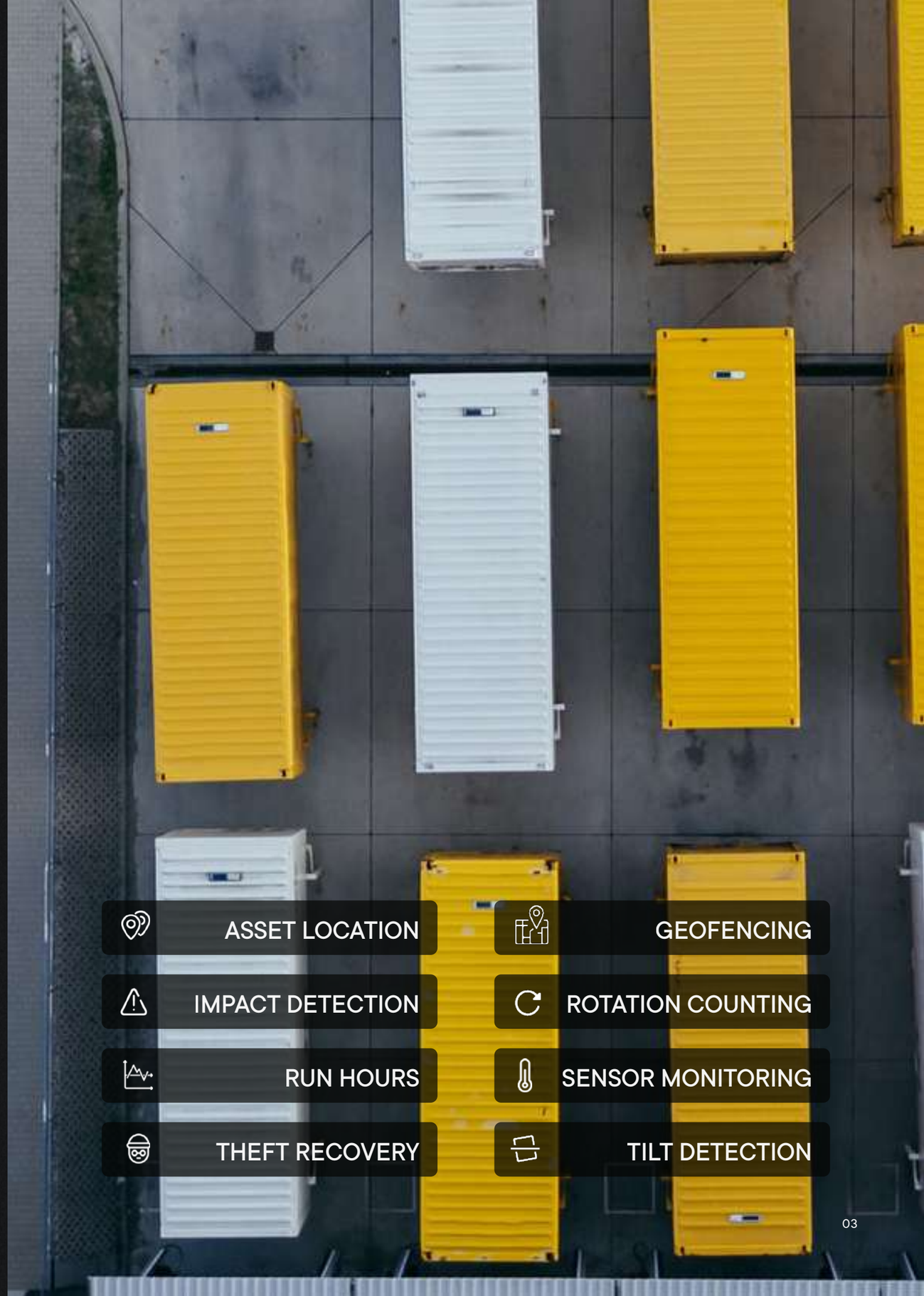
Where most asset tracking devices handle position calculations on-device, Edge devices determine location in Digital Matter's cloud-based solver to significantly reduce power consumption - over 5-10 x lower power consumption than most on-device GNSS solutions.

'Deploy Once' Battery Life

With industry-leading battery life, the Edge portfolio reduces the total cost of device ownership for businesses by eliminating battery changes, device maintenance, and support costs. Intelligent power-saving features such as adaptive tracking, early registration abort, location scan throttling and more ensure Edge devices can perform on a single set of batteries for years, even at more aggressive tracking parameters.

Ultimate Control

The Edge portfolio offers system integrators unprecedented control over device parameters and performance to best fit any indoor-outdoor asset tracking and management application. Enable, disable and customize location technologies to optimize performance, select between location service providers to meet accuracy or budget requirements, and take control of reporting frequencies, movement-based events, accelerometer sensitivity, and much more.



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Yabby EDGE

LTE-M/NB-IoT

Ultra-rugged and compact Indoor/Outdoor asset tracker. Features cloud-based location solving for 10+ years of battery life. *LoRaWAN versions also available.*

2021 IoT Evolution Product of The Year

Standard IP68

Dimensions - 85 x 63 x 24 mm (3.35 x 2.48 x .94)"

Snap Housing (75 x 45 x 25 mm (2.95 x 1.77 x 0.98)" also available for smaller form factor (not IP rated). Livestock housing also available for securing device to animals.

Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location fallback for seamless indoor/outdoor asset management

'Deploy Once' Battery Life

Over 10+ years battery life on only 3 x AAA user-replaceable batteries

Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

"Battery Low" and "Battery Critical" alerts

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK06-rated housing ensures device can withstand impact, fine dust, and brief submersion

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Oyster EDGE

LTE-M/NB-IoT

Ultra-rugged, Indoor/Outdoor battery-powered asset tracking device and Bluetooth® Gateway. Features cloud-based location solving for over 10+ years of battery life.

Standard IP68

Dimensions - 108 x 86 x 31 mm (4.25 x 3.39 x 1.22)"

Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location for seamless indoor/outdoor asset management

Bluetooth® 5.2

Reports on nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring applications

'Deploy Once' Battery Life

Over 10+ years battery life on only 3 x AA user-replaceable batteries

Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

"Battery Low" and "Battery Critical" alerts

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

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Cellular

OBDII & WIRED

	Bolt2	Dart3	G70	G120
Connectivity	LTE-M (Cat-M1) and NB-IoT	2G or LTE-M (Cat-M1) and NB-IoT	2G or LTE-M (Cat-M1) and NB-IoT	2G or LTE-M (Cat-M1) / NB-IoT Optional Iridium Edge Satellite Hybrid
Example Use Cases	Vehicles, Fleet Management	Vehicles, Advanced Fleet Management	Vehicles, Trailers, Heavy Equipment, Advanced Fleet Management	Vehicles, Trailers, Heavy Equipment, BLE Tag and Sensor Monitoring, Advanced Fleet Management
Installation	OBDII	Wired / optional OBDII or cigarette lighter power harness	Wired	Wired
IP68 Rated			Yes	
Real-Time Tracking	Yes	Yes	Yes	Yes
Cell Tower Location Fallback	Yes	Yes	Yes	Yes
Bluetooth®				Bluetooth 5.0 Gateway
Global Coverage				Iridium Satellite Hybrid Option
GPS Jamming Detection	Yes	Yes	Yes	Yes
Backup Battery	Yes	Yes	Yes	Yes
Ignition Digital Input		1	1	1
Digital Inputs		3	3	6
Analog Inputs		1	1	1
Switched Ground Digital Output		1	1	2
Switched Power Out		Yes		Yes
RS-232 Interface				Yes
Driver ID		Yes	Yes	Yes
Driver Behavior	Yes	Yes	Yes	Yes
Run Hour Monitoring / Odometer	Yes	Yes	Yes	Yes
Remote Immobilization		Yes	Yes	Yes
Wiegand Support		Yes	Yes	Yes

Bolt2

LTE-M/NB-IoT

Compact and affordable vehicle tracking device featuring simple plug-and-play installation and backup battery for real-time fleet management, driver safety and behavior monitoring, theft recovery, and more

Real-Time Tracking

High-precision GPS/GLONASS tracking device plugs into existing OBDII ports

Backup Battery

Internal backup battery – if the device is removed from power it will continue to track for a period of time

Critical Alerts

Unplugged/power loss alerts to notify users of device removal, tampering, unauthorized trips, or theft

Driver Behavior

Speeding, harsh braking and cornering, accident and rollover detection

Run Hour Monitoring

Electronic Odometer Calculations

Movement-Based Tracking

Accelerometer for adaptive and movement-based tracking

Plug-and-Play

Plug and play or splitter installation options for covert install

Dart3

2G or LTE-M/NB-IoT

Robust and affordable vehicle tracking device with inputs/outputs, remote immobilization for fleet management, driver ID, driver safety and behavior monitoring, theft recovery, and more.

Real-Time Tracking

High-precision GNSS wired tracking device

Inputs/Outputs

1 x Ignition Digital Input, 3 x Digital Inputs, 1 x Analog Input, 1 x Switched Ground Digital Output, Switched Power Out

Backup Battery

Internal Backup Battery in case of loss of power or tampering

Driver ID

Configure iButton®, Wiegand or RFID readers for Driver ID

Driver Behavior

Run hour monitoring, accident and rollover detection, speeding, harsh braking and cornering, and more

Remote Immobilization

Immobilization option to safely disable vehicles and equipment remotely

Installation

Wired or optional OBDII or cigarette lighter power harness available for plug-and-play installation

G70

2G or LTE-M/NB-IoT

Rugged and robust vehicle, trailer, or heavy equipment tracking device with inputs/outputs, remote immobilization for fleet management, equipment monitoring, driver ID, theft recovery, and more

Real-Time Tracking

High-precision GNSS wired tracking device

Inputs/Outputs

1 x Ignition Digital Input, 3 x Digital Inputs, 1 x Analog Input, 1 x Switched Ground Digital Output

Backup Battery

Internal Backup Battery in case of loss of power or tampering

Driver ID

Configure iButton®, TTL, or Wiegand inputs for Driver ID Readers

Driver Behavior

Run hour monitoring, accident and rollover detection, speeding, harsh braking and cornering, and more

Remote Immobilization

Immobilization option to safely disable vehicles and equipment remotely

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK08-rated housing ensures device can withstand impact, fine dust, and brief submersion

For full tech specs visit www.digitalmatter.com

G120

2G or LTE-M/NB-IoT
Optional Iridium Satellite Hybrid

GPS tracking device and Bluetooth® Gateway with optional Iridium Satellite for global coverage with inputs/outputs, RS-232 Interface, and remote immobilization for fleet management, driver ID, driver safety and behavior monitoring, remote worker safety, theft recovery, and more

Real-Time Tracking

High-precision GPS/GLONASS tracking device wired to vehicles or equipment

Backup Battery

Internal Backup Battery in case of loss of power or tampering

Bluetooth Gateway

Bluetooth® 5.0 Gateway for tagged asset management and sensor monitoring

Inputs/Outputs

1 x Analog Input, 6 x Digital Inputs, 2 x Switched Ground Digital Outputs, 1 x Ignition Digital Input, Switched Power Out

RS-232 Interface

RS-232 Interface to connect optional Iridium Edge® Module or interface with controllers and sensors

Driver ID

Configure iButton®, RFID readers and Wiegand Interface for Driver ID

Driver Behavior

Accident and rollover detection, speeding, harsh braking, and more

In-Cab Alerts

Built-in Buzzer for in-cab alerts

Hawk

Cellular LTE-M / NB-IoT
Satellite Version Also Planned

Status: *New Product Introduction*

The Hawk is a rugged and robust IoT datalogger for a wide range of sensor and condition monitoring applications

Housing Rendering

Plug-in I/O Interface

Plug-in cards define the 9 inputs. outputs, offering limitless options for interfacing to sensors such as SDI-12, I²C, 1-Wire, iButton, 4-20mA, RS-485, RS-232, Analog Inputs, Digital Inputs, Pulse Counting, Digital Outputs, Switched Power, and more

GPS Location

On-board GPS for location plus optional cell tower positioning

Task Management

Powerful task management allows you to schedule tasks or run tasks based on sensor thresholds and events

Rechargeable LiPo Battery

Large 3500mAh rechargeable LiPo battery pack to support full-season deployments

Multiple Power Options

Charge and operate the Hawk with 6-28V DC, including support for solar panels. The Hawk can also supply power to external sensors.

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing with GORE® vent ensures device can withstand impact, fine dust, and brief submersion

LoRaWAN® Solutions

Low-power, high-performance
LoRaWAN® asset tracking hardware

	Yabby Edge LoRaWAN	Oyster3 LoRaWAN	G70 LoRaWAN
Frequency	868 or 902-928 MHz versions	All 868, 902-928MHz LoRaWAN® regions supported	All 868, 902-928MHz LoRaWAN® regions supported
Example Use Cases	Small Equipment, Packages and Deliveries, Supply Chain, Logistics, Pallets, Carts, Trolleys, Livestock	Equipment, Bins, Containers, Supply Chain, Logistics, Wildlife	Fleet Management, Vehicle and Equipment Tracking
Power	Battery-Powered	Battery-Powered	Wired
Installation	Covertly install anywhere with screws, bolts, cable ties, etc. Livestock housing available for securing device to animals.	Covertly install anywhere with screws, bolts, cable ties, etc.	7 wire harness 1m Length
IP68 Rated	Yes	Yes	Yes
Environment	Indoor/Outdoor	Outdoor	Outdoor
Cloud-Based Location Solving	Yes		
GNSS	GNSS Scanning	Full	Full
Wi-Fi MAC Address Scanning	Yes		
LoRaWAN® Geolocation	Yes	Yes	Yes
Accelerometer	Yes	Yes	Yes
Batteries	2 x AAA Lithium	3 x AA Lithium or Lithium Thionyl Chloride (LTC)	
*Battery Life (Daily)	**12+ Years	**10+ Years	
*Battery Life (Movement-Based)	6 Years	5 Years	
*Battery Life (Hourly)	3 Years	2 Years	
Internal Backup Battery			Rechargeable 1100mAh LiPo
Inputs / Outputs			1 x Analog Input, 3 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input

* Battery life estimates are influenced by several factors including temperature, installation location and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

** For battery life estimates over 10 years, please consider network technology availability and other factors such as battery manufacturer lifespan and self-discharge specifications.

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2021 IoT Evolution Product of The Year

Yabby EDGE LoRaWAN®

868 or 902–928 MHz versions

Ultra-rugged and compact Indoor/Outdoor asset tracker. Features cloud-based location solving for 10+ years of battery life.

Standard IP68
Dimensions - 85 x 63 x 24 mm (3.35 x 2.48 x .94)"

Snap Housing (75 x 45 x 25 mm (2.95 x 1.77 x 0.98)" also available for smaller form factor (not IP rated). Livestock housing also available for securing device to animals.

Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and LoRaWAN® geolocation fallback for seamless indoor/outdoor asset management

'Deploy Once' Battery Life

Over 10+ years battery life on only 2 x AAA user-replaceable batteries

Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Monitoring

Periodic battery status uplinks give breakdown of power use

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK06-rated housing ensures device can withstand impact, fine dust, and brief submersion

Oyster3 LoRaWAN®

All 868, 902-928MHz LoRaWAN® regions supported

Next generation of our best-selling Oyster series - Ultra-rugged battery-powered GPS asset tracking device for LoRaWAN® networks featuring 10 years battery life

Standard IP68
Dimensions - 108 x 86 x 31 mm (4.25 x 3.39 x 1.22)'

'Deploy Once' Battery Life

Over 10+ years battery life on user-replaceable 3 x AA Lithium or Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Monitoring

Periodic battery status uplinks give a breakdown of power use

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

For full tech specs visit www.digitalmatter.com

G70 LoRaWAN®

All 868, 902-928MHz LoRaWAN® regions supported

Robust and ultra-rugged LoRaWAN® vehicle and heavy equipment tracking device with inputs/outputs for fleet management, equipment monitoring

GPS/GLONASS

High-precision GPS/GLONASS tracking device

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK08-rated housing ensures device can withstand impact, fine dust, and brief submersion

Backup Battery

Internal Backup Battery in case of loss of power or tampering

Inputs/Outputs

1 x Analog Input, 3 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input

Run Hour Monitoring

On-Device Odometer Readings

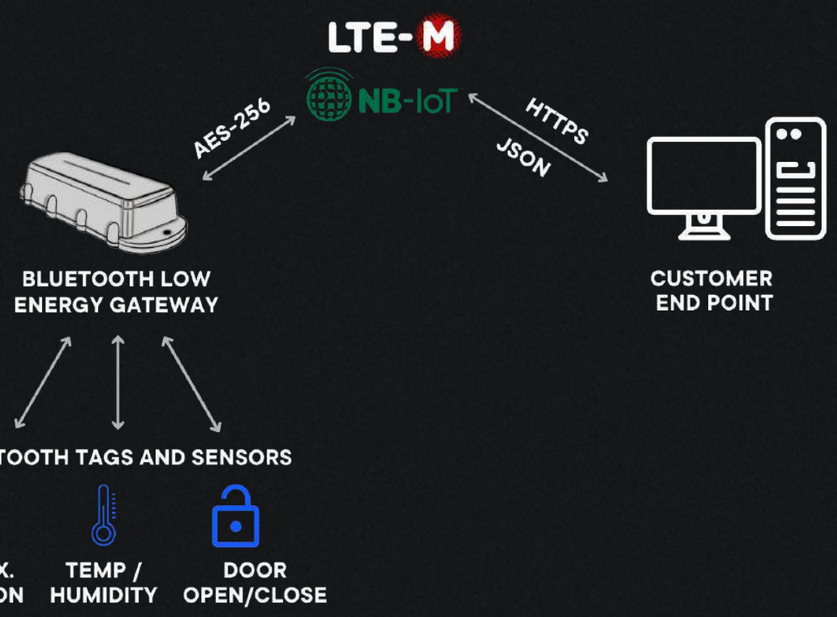
Bluetooth® Solutions

Affordable asset management and sensor monitoring solutions with Bluetooth® Low Energy

Track More for Less with Bluetooth Low Energy

Digital Matter Bluetooth Gateway devices feature concurrent location tracking (GNSS, Wi-Fi and Cell Tower Location) and Bluetooth Low Energy, enabling GPS track-and-trace with customizable condition monitoring for critical assets.

With battery-powered and wired Gateway solutions, simple integration protocols and hundreds of Bluetooth Low Energy tags, sensors, and beacons on the market, it's now faster and more affordable than ever to protect, optimize, and derive more value from the assets that matter.



Impact and High-G Force Detection

Receive instant alerts when, and at what locations, high-value assets or dangerous goods are mishandled during transit.

Door Open/Close Monitoring

Integrate with a variety of Bluetooth sensors to enable door open/close monitoring for tamper detection, reporting, and/or compliance.

Inventory and Asset Management

Bluetooth Location Tags can be used to manage stock, inventory, pallets, tools, small pieces of equipment, or other assets where a larger (and more expensive) full GPS device may not make commercial sense.

Cold Chain Management

Install Bluetooth Low Energy sensors in temperature/humidity-sensitive trucks, freezers, or packages to maintain safety and compliance.

Enhanced Fleet Management

Utilize Bluetooth fuel level and fuel flow monitoring probes, axle load meters, tire pressure and temperature sensors, and more for a robust and wire-free fleet management solution.

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Cellular

Bluetooth® Gateways

	Oyster Edge	Remora3	G120
Connectivity	LTE-M (Cat-M1) and NB-IoT	LTE-M (Cat-M1) and NB-IoT	2G or LTE-M (Cat-M1) / NB-IoT Optional Iridium Edge Satellite Hybrid
Example Use Cases	Equipment, Bins, Containers, Supply Chain, Logistics, BLE Tag and Condition Monitoring	Large Equipment, Bins, Containers, Supply Chain, Logistics, BLE Tag and Condition Monitoring	Vehicles, Trailers, Heavy Equipment, Bluetooth tag/ sensor monitoring, Advanced Fleet Management, Global coverage
Power	Battery-Powered	Battery-Powered	Wired
Bluetooth	Bluetooth 5.2 Gateway	Bluetooth 5.2 Gateway	Bluetooth 5.0 Gateway
Installation	Covertly install anywhere with screws, bolts, cable ties, etc.	Covertly install anywhere with screws, bolts, cable ties, etc.	24 pin connector provided as standard
IP68 Rated	Yes	Yes	
Environment	Indoor/Outdoor	Outdoor	Outdoor
Cloud-Based Location Solving	Yes		
GNSS	GNSS Scanning	Full	Full
Wi-Fi MAC Address Scanning	Yes		
Cell Tower Location	Yes	Yes	Yes
Accelerometer	Yes	Yes	Yes
Batteries	3 x AA Lithium	2 x D Lithium Thionyl Chloride (LTC)	
*Battery Life (Daily)	**10+ Years	**20+ Years	
*Battery Life (Movement-Based)	7 Years	**10+ Years	
*Battery Life (Hourly)	4.5 Years	**10+ Years	
Inputs / Outputs, Sensor Interfaces			1 x Analog Input, 6 x Digital Inputs, 2 x Switched Ground Digital Outputs, 1 x Ignition Digital Input, Switched Power Out, RS-232

* Battery life estimates are based on LTE-M/NB-IoT Connectivity and influenced by several factors including temperature, installation location and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

** For battery life estimates over 10 years, please consider network technology availability and other factors such as battery manufacturer lifespan and self-discharge specifications.

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Oyster EDGE

LTE-M/NB-IoT

Ultra-rugged, Indoor/Outdoor battery-powered asset tracking device and Bluetooth® Gateway. Features cloud-based location solving for over 10+ years of battery life.

Standard IP68

Dimensions - 108 x 86 x 31 mm (4.25 x 3.39 x 1.22)"

Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location for seamless indoor/outdoor asset management

Bluetooth® 5.2

Reports on nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring applications

'Deploy Once' Battery Life

Over 10+ years battery life on only 3 x AA user-replaceable batteries

Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

"Battery Low" and "Battery Critical" alerts

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

Remora3

LTE-M/NB-IoT

Ultra-rugged, long-life battery-powered GPS asset tracking device and Bluetooth® Gateway featuring *20 years of battery life and tamper detect - **longest-lasting battery-powered device on the market**

'Deploy Once' Battery Life

Over *20 years battery life movement-based tracking, 2 years at most aggressive (second-by-second) tracking performance

Bluetooth® 5.2 Gateway

Reports on nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring applications

User-Replaceable Batteries

Uses off-the shelf 2 x D Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

"Battery Low" and "Battery Critical" alerts

Tamper Detect

Magnetic Tamper Detect

Ultra-Rugged

Ultra-rugged and waterproof IP68 and IK07-rated housing ensures device can withstand impact, fine dust, and brief submersion

Standard IP68

Dimensions - 224 x 91 x 41 mm (8.82 x 3.58 x 1.61")

* For battery life estimates over 10 years, please consider network technology availability and other factors such as battery manufacturer lifespan and self-discharge specifications.

G120

2G or LTE-M/NB-IoT
Optional Iridium Satellite Hybrid

GPS tracking device and Bluetooth® Gateway with optional Iridium Satellite for global coverage with inputs/outputs, RS-232 Interface, and remote immobilization for fleet management, driver ID, driver safety and behavior monitoring, remote worker safety, theft recovery, and more

Real-Time Tracking

High-precision GPS/GLONASS tracking device wired to vehicles or equipment

Backup Battery

Internal Backup Battery in case of loss of power or tampering

Bluetooth Gateway

Bluetooth® 5.0 Gateway for tagged asset management and sensor monitoring

Inputs/Outputs

1 x Analog Input, 6 x Digital Inputs, 2 x Switched Ground Digital Outputs, 1 x Ignition Digital Input, Switched Power Out

RS-232 Interface

RS-232 Interface to connect optional Iridium Edge® Module or interface with controllers and sensors

Driver ID

Configure iButton®, RFID readers and Wiegand Interface for Driver ID

Driver Behavior

Accident and rollover detection, speeding, harsh braking, and more

In-Cab Alerts

Built-in Buzzer for in-cab alerts

For full tech specs visit www.digitalmatter.com

Peripherals & Third-Party Support

Customize our devices to fit your use case with a wide range of peripherals and third-party sensor and input support. Visit support.digitalmatter.com for supported solutions.

RFID Driver ID Reader

Plug-and-play RFID Reader. Internal LED and buzzer for driver feedback

iButton Driver ID Reader

Low-cost Driver ID solution. Reads Dallas iButton Tags

Third-Party Bluetooth® Tags and Sensors

Many third-party Bluetooth tags and sensors supported

Third-Party Sensors & Inputs

Many third-party sensors and inputs supported

Device Management

Manage your connected devices remotely with our powerful IoT Device Management Platform

- Over-the-air (OTA) Device Provisioning
- OTA Firmware and Parameter Updates
- Device Health Monitoring
- Debugging and Server Logs
- Cloud-Based Location Solver
- Flexible Data Conduit to your choice of software

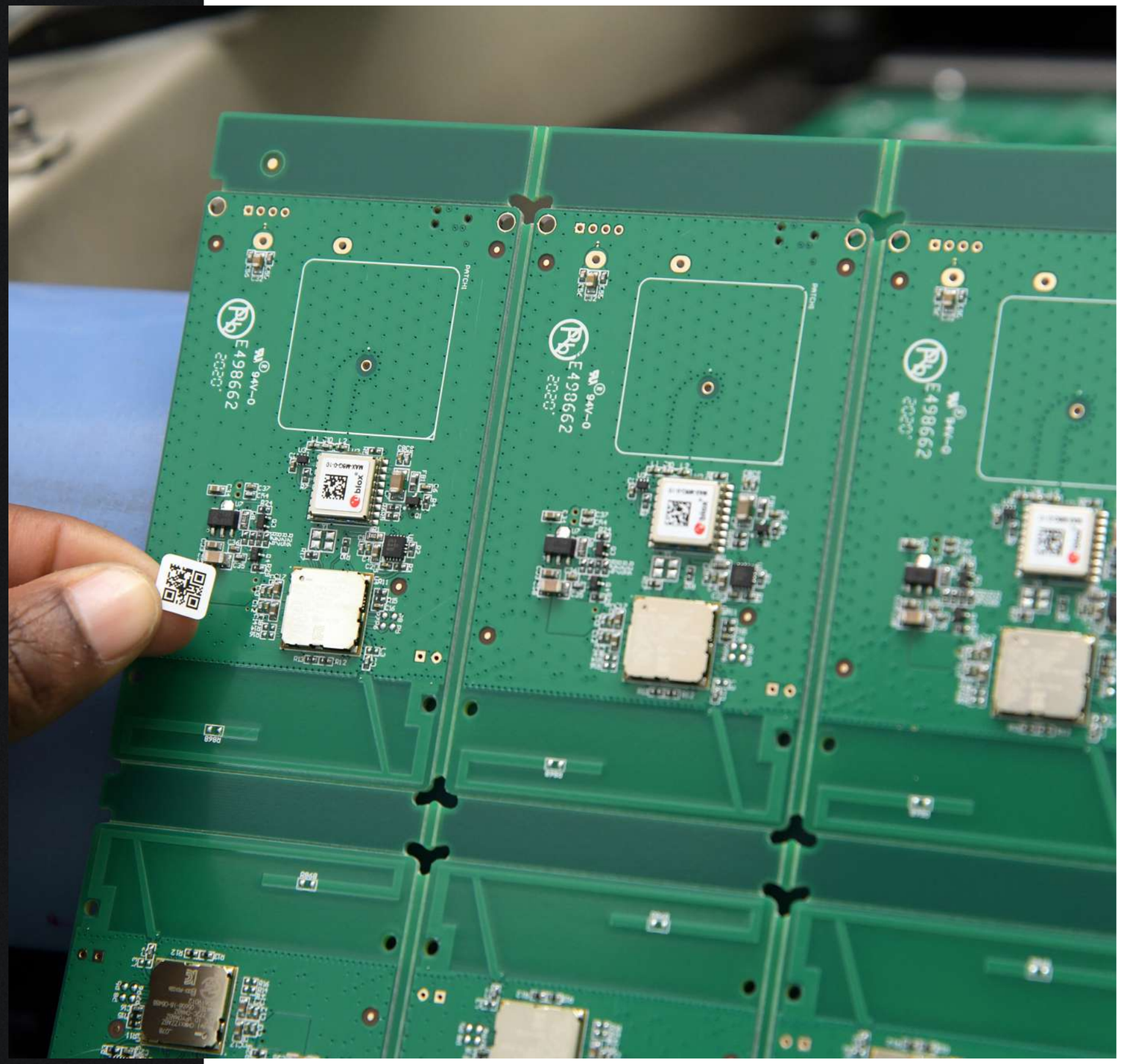
Integration

Send data to the platform of your choosing with secure and flexible integration options via Webhook, TCP or HTTP/HTTPS, Direct Integration or Data Splitting.

Development

Accelerate time to market by adapting our current range of devices to fit niche applications with custom firmware, housing, and sensor integrations, or work with us to develop a fully-custom solution.

- Validated Reference Designs
- Design for Manufacturing
- Design for Certification
- Design for Durability



Security

We implement comprehensive security protocols on our devices and software to protect against attacks on the integrity and confidentiality of your telematics data.

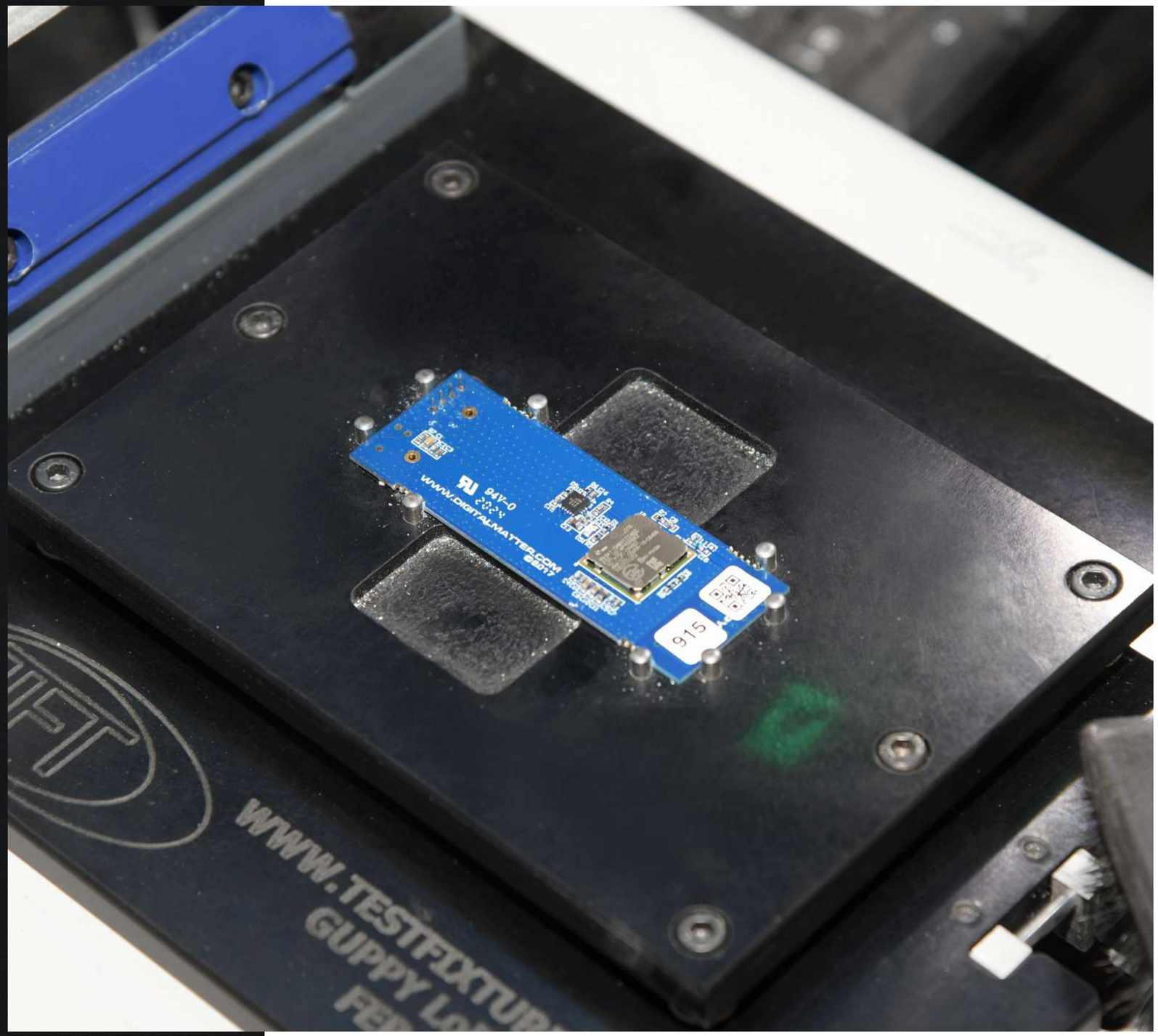
Our cellular devices use military-level 256-bit AES256CCM encryption.

LoRaWAN® networks use AES-128 Encryption.

Support

Deploy devices faster with unbeatable onboarding and regional technical support from our team of qualified engineers.

Get instant access to our knowledge base (www.support.digitalmatter.com) of over 600 configuration, installation, and device management guides.



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Let's Get Started

www.digitalmatter.com