

Connect more

Demand more from your devices

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The Digital Matter Difference

OUALITY matters

POWER matters

FLEXIBILITY matters

'Good Enough' is Not Enough For Your Critical Assets

Details matter. Our entire process is underpinned by a relentless attention to detail to consistently deliver solutions of the highestpossible quality and reliability.

The Power to Do More with 'Deploy Once' Battery Life

Through smarter design and better engineering we're now able to achieve 'deploy once' battery life, significantly reducing operating costs and enabling deployments at scale.

Demand More From Your Devices

Easily configure your devices with full control over a rich set of device parameters. Send data to any end platform with multiple integration options.

With custom hardware, housing, firmware, and software options, we can also work with you to bring a fully custom asset tracking or sensor monitoring solution to market.

SECURITY matters

Authenticated and Encrypted Everywhere

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

Measures such as multifactor authentication, regular infrastructure security updates, frequent vulnerability testing, and more keep your data secure.



Device Manager

Robust and Scalable Over-the-Air Device Management

Unlock the full potential of your IoT asset tracking solution with Device Manager, our comprehensive device management platform designed to simplify configuration, integration, and deployment.



CONNECT

Configure APN, LTE bands, and other network settings with comprehensive debugging tools to quickly resolve connection issues.



MONITOR

View critical diagnostic data including last connected date, battery and external voltage, critical debug logs, and device statistics.



INTEGRATE

Send data anywhere with fast and flexible integration control. Forward device data via HTTPS or TCP, view live server logs, forward to multiple endpoints, or perform API calls.



INSTALL

Reduce expensive and support-intensive installation errors with built-in Installer tools. Perform quick health checks to remotely confirm device installation is correct.



CONFIGURE

Take control of our extensive range of device parameters to optimize for every application. Manage templates to provision devices at scale.



UPDATE

Manage parameter and firmware updates over-theair and at scale to apply new device features and security enhancements.



ENRICH

Resolve Edge devices GNSS, Wi-Fi Access Point, and Cell Tower scan data to locations. Manage sending device almanac files and position estimates.



SECURE

Designed for resilience at scale. Two-factor authentication and AES-256 device and server authentication and encryption.



BATTERY-POWERED 4G / 5G - LTE-M (Cat-M1) / NB-IoT





	Barra Edge	Barra Core	
GNSS and Wi-Fi Scanning Key Differentiators LTE-M and NB-IoT Nordic Module		Lowest Cost Wi-Fi Scanning NB-IoT Only Quectel Module	
Connectivity	LTE-M and NB-IoT	NB-IoT Only	
Environment	Indoor/Outdoor	Indoor/Outdoor	
Location Technologies	GNSS Scanning Wi-Fi Scanning Cell Tower Location	Wi-Fi Scanning Cell Tower Location	
Cloud-Based Location Solving	Yes	Yes	
Housing Size	149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)	149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)	149
Magnetic Activation and Tamper Detection	Yes	Yes	
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	
Batteries	2 x AA Alkaline or Lithium 1.5V	2 x AA Alkaline or Lithium 1.5V	
* Battery Life (Daily)	10+ Years	10+ Years	
* Battery Life (Movement-Based)	5+ Years	5+ Years	
* Battery Life (Hourly)	3+ Years	3+ Years	

* 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 estimate calculators are available at support.digitalmatter.com. For battery life estimates over 10 years, please consider network technology availability as well as battery manufacturer lifespan and self-discharge specifications.



Barra GPS

Full GNSS LTE-M and NB-loT Nordic Module

LTE-M and NB-loT

Outdoor

Full GNSS Cell Tower Location

149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)

Yes

IP68 Rugged Waterproof

2 x AA Alkaline or Lithium 1.5V

8+ Years

3+ Years

2+ Years



BATTERY-POWERED continued 4G / 5G - LTE-M (Cat-M1) / NB-IoT

Key DifferentiatorsCompact sizeOptimal balance between size and battery life with LTC supportOyster with Bluetooth - connect more with BLE tags and sensor monitoringLongest-life tracker on the market - 'Second-by-Second' tracking and BLE tags and sensor monitoringCompaConnectivityLTE-M and NB-IoTLTE-M and NB-IoTLTE-M and NB-IoTLTE-M and NB-IoTLTE-MEnvironmentOutdoorOutdoorOutdoorOutdoorIndoor/OutdoorLocation TechnologiesFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationCloud-Based Location SolvingBluetooth@52 Gateway52 GatewayHousing Size $\frac{85 \times 63 \times 24 mm}{(335 \times 248 \times .94)}$ 108 \times 86 \times 31 mm (425 \times 339 \times 122)108 \times 86 \times 31 mm (425 \times 339 \times 122)224 \times 91 \times 41 mm (335 \times 248 \times .161)85 \times 61 \times 248 \times .161)					in it it	
Key DifferentiatorsCompact sizeOptimal balance between size and battery life with LTC supportOyster with BLE tags and sensor monitoring- 'Second-by-Second' tracking and BLE tags and BLE tags and BLE tags and sensor monitoringCompact sizeCompact Indoor/Ou Indoor/OuConnectivityLTE-M and NB-IoTLTE-M and NB-IoTLTE-M and NB-IoTLTE-M and NB-IoTLTE-M and sensor monitoringEnvironmentOutdoorOutdoorOutdoorOutdoorOutdoorIndoor/Location TechnologiesFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationGNSS Wi-Fi Cell Tower LocationGNSS Wi-Fi Cell Tower LocationCloud-Based Location SolvingBluetooth®52 Gateway52 GatewayHousing Size85 x 63 x 24 mm (335 x 248 x .94')108 x 86 x 31 mm (425 x 339 x 122')108 x 86 x 31 mm (425 x 339 x 122')108 x 86 x 31 mm (425 x 339 x 122')224 x 91 x 41 mm (852 x 358 x 161')		Yabby3	Oyster3	Oyster3 Bluetooth	Remora3	Yabby Edge
EnvironmentOutdoorOutdoorOutdoorOutdoorIndooLocation TechnologiesFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationGNSS Wi-Fi Cell Tower LocationCloud-Based Location SolvingBluetooth®52 Gateway52 GatewayHousing Size $\frac{85 \times 63 \times 24 \text{mm}}{(3.35 \times 2.48 \times .94'')}$ $\frac{108 \times 86 \times 31 \text{mm}}{(425 \times 3.39 \times 122'')}$ $\frac{108 \times 86 \times 31 \text{mm}}{(425 \times 3.39 \times 122'')}$ $\frac{224 \times 91 \times 41 \text{mm}}{(8.82 \times 3.58 \times 1.61'')}$ $\frac{85 \times 61 \times 24 \times 91 \times 41 \text{mm}}{(3.35 \times 2.48 \times .94'')}$	Key Differentiators	Compact size	size and battery life with	connect more with BLE tags	- 'Second-by-Second' tracking and BLE tags and sensor	Compact size with Indoor/Outdoor locatio
Location TechnologiesFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationFull GNSS Cell Tower LocationGNSS Wi-Fi 	Connectivity	LTE-M and NB-loT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-loT
Location TechnologiesFull GNSSFull GNSSFull GNSSFull GNSSFull GNSSFull GNSSWi-Fi Cell Tower LocationCloud-Based Location SolvingCell Tower LocationCell Tower LocationCell Tower LocationCell Tower LocationWi-Fi Cell Tower LocationBluetooth®5.2 Gateway5.2 Gateway<	Environment	Outdoor	Outdoor	Outdoor	Outdoor	Indoor/Outdoor
Location Solving - - 5.2 Gateway 5.2 Gateway Bluetooth® - - 5.2 Gateway 5.2 Gateway Housing 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") 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 6 (3.35 x 2.48 x .94")						GNSS Scanning Wi-Fi Scanning Cell Tower Location
Housing 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") 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 6 (3.35 x 2.48 x .94")		_	_	-	_	Yes
Housing Size (3.35 x 2.48 x .94") (4.25 x 3.39 x 1.22") (4.25 x 3.39 x 1.22") (8.82 x 3.58 x 1.61") (3.35 x	Bluetooth®	-	-	5.2 Gateway	5.2 Gateway	-
IP Rating IP 68 Rugged Waterproof IP 68 Rugged Waterpr	Housing Size					85 x 63 x 24 mm (3.35 x 2.48 x .94")
	IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterpro
Batteries3 x AAA Lithium 1.5V3 x AA Lithium 1.5V or Lithium Thionyl Chloride 3.6V3 x AA Lithium 1.5V2 x D Lithium Thionyl Chloride 3.6V3 x AAA Lithium 1.5V	Batteries	3 x AAA Lithium 1.5V		3 x AA Lithium 1.5V		3 x AAA Lithium 1.5V
* Battery Life (Daily)10+ Years10+ Years10+ Years20+ Years10-	,	10+ Years	10+ Years	10+ Years	20+ Years	10+ Years
* Battery Life (Movement-Based)3+ Years6+ Years6+ Years10+ Years3.5		3+ Years	6+ Years	6+ Years	10+ Years	3.5+ Years
* Battery Life (Hourly)1.5+ Years3.5+ Years3.5+ Years10+ Years2+		1.5+ Years	3.5+ Years	3.5+ Years	10+ Years	2+ Years

* 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 estimate calculators are available at support.digitalmatter.com. For battery life estimates over 10 years, please consider network technology availability as well as battery manufacturer lifespan and self-discharge specifications.





<u>oy Edge</u>

Oyster Edge

ct size with tdoor location

Indoor/Outdoor location and BLE tags and sensor monitoring

LTE-M and NB-IoT

Indoor/Outdoor

GNSS Scanning Wi-Fi Scanning **Cell Tower Location**

Yes

5.2 Gateway

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

IP68 Rugged Waterproof

3 x AA Lithium 1.5V

10+ Years

7+ Years

ed Waterproof

4.5+ Years





Oyster3 Global



Remora3 Global

Key Differentiators	Optimal balance between size and battery life with LTC support	Longest-life tracker on the market - 'Second-by-Second
Connectivity	4G Cat 1bis and 2G fallback	4G Cat 1bis and 20
Environment	Outdoor	Outdoor
Location Technologies	Full GNSS Cell Tower Location	Full GNSS Cell Tower Loc
Bluetooth®	_	5.2 Gatewa
Housing Size	108 x 86 x 31 mm (4.25 x 3.39 x 1.22")	224 x 91 x 41 (8.82 x 3.58 x
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Wa
Batteries	3 x AA Lithium 1.5V or Lithium Thionyl Chloride 3.6V	2 x D Lithium Thionyl Chl
* Battery Life (Daily)	8+ Years	10+ Years
* Battery Life (Movement-Based)	4 Years	7+ Years
* Battery Life (Hourly)	1.5+ Years	6+ Years

* 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 estimate calculators are available at support.digitalmatter.com. For battery life estimates over 10 years, please consider network technology availability as well as battery manufacturer lifespan and self-discharge specifications.

BATTERY-POWERED 4G Cat Ibis with 2G Fallback WORLDWIDE ASSET VISIBILITY

nd' tracking and BLE tags and sensor monitoring
2G fallback
r
SS ocation
vay
1 mm < 1.61")
aterproof
nloride 3.6V
rs
S
S



2G, LTE-M/NB-IoT, and Iridium Satellite Hybrid Solutions







	Bolt2	Dart3	<u>G70</u>	<u>G120</u>
Key Differentiators	Plug-and-Play install with backup battery	Low-cost wired solution with I/Os	Dustproof and waterproof rugged wired solution with I/Os	Wired solution with additional I/Os, Bluetooth®, and optional Iridium
Connectivity	LTE-M and NB-IoT	2G or LTE-M and NB-IoT versions	2G or LTE-M and NB-IoT versions	LTE-M and NB-IoT Optional Iridium Edge Satellite Hybrid
Installation	OBDII	Wired / optional OBDII or cigarette lighter power harness	Wired	Wired
IP Rating	_	_	IP68 Rugged Waterproof	_
Real-Time Tracking	Yes	Yes	Yes	Yes
Bluetooth®	_	-	_	5.0 Gateway
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

OBDII AND WIRED





IOT DATA LOGGER AND SENSOR HUB LTE-M/NB-IOT and IOT Satellite



	Hawk Cellular	Hawk Satellite (Under Development)	Integrate Any Senso	or with Plug-
Key Differentiators	Connect any sensor within cellular coverage	Connect any sensor outside of cellular coverage	Agtech1	1 x Digital Inp Switched Po Power, 1-Wire
Connectivity	LTE-M and NB-IoT	IoT Satellite		
Environment	Indoor/Outdoor	Outdoor	Agtech2	4 x Analogue Ground, SDI- Switched Sei
Architecture	Flexible I/O Card Architecture caters	for plug-in cards that define the 9 inputs/outputs	Plustaath Cataway	
		hargeable 3500mAh LiPo battery	Bluetooth Gateway	Coming Sooi
Multiple Power Options		power including solar Cell LTC batteries	Digital	Coming Sooi
Rugged Housing Options	Hawk LiPo - Accommodates PCB, I/O Card and LiPo battery Hawk D Cell - Accommodates PCB, I/O Card, and 2 x D Cell LTC batteries		RS-1	1 x Analogue Switched Gr Power Out, 5 1 x 4-20mA ir
Onboard Digital Input	1 x Digital Input with configurable pull up/pull down 0-40V DC input range Can be used for pulse counting		Serial (RS-232 and TTL)	Coming Soo
Onboard Output Power	Flexible onboard output power to power your sensors		Custom Card	Custom carc apply.
Onboard Task Management	Powerful onboard task management allows you to schedule tasks or run tasks based on sensor thresholds and events			
Onboard LiPo Battery Charger	Onboard LiPo battery charger with selectable charge rate		Hawk PCB, I/O Cards, and H	Housing Sold Se
Onboard Accelerometer	Yes -			

ig-and-Play I/O Cards

nput, 1 x Switched Ground, I²C, SDI-12, 3.3V Power Out, 5V or 12V Switched Sensor /ire® or iButton®, 4-20mA

ue Inputs (0-30V Range), 1 x Switched DI-12, 3.3V Switched Power Out, 5V or 12V Sensor Power, 1-Wire®

oon

oon

ue Input (0-30V Range), 1 Digital Input, 1 x Ground, RS485 (Modbus), 3.3V Switched :, 5V or 12V Switched Sensor Power, 1-Wire®, A input

oon

rd development is available. MOQs may

Separately









	Yabby Edge LoRaWAN	Yabby3 LoRaWAN	Oyster3 LoRaWAN
Key Differentiators	Compact size with Indoor/Outdoor location	Compact size	Longest-life LoRaWAN asset tracker on the market - Optimal balance between size and battery life with LTC support
Frequencies	868 or 902-928 MHz versions	All 868, 902-928 MHz regions supported in single SKU	All 868, 902-928 MHz regions supported in single SKU
Power	Battery-Powered	Battery-Powered	Battery-Powered
Environment	Indoor/Outdoor	Outdoor	Outdoor
Location Technologies	GNSS Scanning Wi-Fi Scanning	Full GNSS	Full GNSS
Cloud-Based Location Solving	Yes	-	-
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Batteries	2 x AAA Lithium	3 x AAA Lithium	3 x AA Lithium or Lithium Thionyl Chloride (LTC)
* Battery Life (Daily)	12+ Years	7+ Years	10+Years
* Battery Life (Movement-Based)	6+ Years	2+ years	5+ Years
* Battery Life (Hourly)	3+ Years	7+ Months	2+ Years
Inputs / Outputs	-	-	-

* 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 estimate calculators are available at support.digitalmatter.com. For battery life estimates over 10 years, please consider network technology availability as well as battery manufacturer lifespan and self-discharge specifications.





G62 LoRaWAN

Dustproof and waterproof rugged wired solution with I/Os

All 868, 902-928 MHz regions supported in single SKU

Wired with Internal Backup Battery

Outdoor

Full GNSS

IP68 Rugged Waterproof

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



Demand More from Your Devices

Easily configure your devices to provide more than just a dot on the map with full control over a rich set of device parameters.

Device Management - Parameter Examples

Parameter	Description
Battery Voltage	Customize battery-related alerts such as sending a log when the internal battery level drops.
External Power	Customize power settings to facilitate 'power removed' alerts. Set some devices to keep peripherals powered while in sleep mode.

Fleet Management - Parameter Examples

Parameter	Description
Accident Detection	Set accident logging based on custom accelerometer thresholds. Customize the change in velocity needed to be treated as an accident. Optional Roll Logging including Roll Threshold. Set general accelerometer settings including Wakeup Threshold.
Driver Fatigue	Set parameters to trigger a buzzer when a certain amount of trip time has elapsed. The time between buzzes, the number of times the buzzer sounds, and the maximum amount of time before alerting the driver to stop can all be customized.
Driver ID	Driver ID functionality customization including asset immobilization/buzzing if no Driver ID detected.
Fuel	Configure integrated fuel sensors. Set parameters such as frequency of fuel sensor polling and the frequency of logging the fuel sensor reading.
Geofence Downloads	Manage geofences and configure device behavior when inside/outside including varying the reporting rate, flash lights or sound buzzers, speed alerts, and more.

Fleet Management continued

Parameter	Description
Harsh Driving	Set thresholds and configue acceleration thresholds, ha
Idle Monitoring	Set custom thresholds for speed threshold, and whet idling.
Inactivity Timer	Configure alerts if device of
Odometer	Enable on-device odomete
Speeding	Enable a global threshold f log can be created or a bu additional records when ov

GPS Settings - Parameter Examples

Parameter	Description
Advanced GPS Settings	Configure GPS timeout beh to achieve a fix to conserve
GPS Accuracy	Customize GPS accuracy re
	Positional Accuracy, and Sp

Inputs/Outputs - Parameter Examples

Parameter	Description	
Analog Inputs	Configure device analog inp temperature probes or tank alerts.	
Digital Inputs	Configure active level and b buzzers to sound when inpu	
Digital Outputs	Configure Switched Ground buzzers, immobilization relay	
Input Monitor	Configure advanced action inputs and a speed thresho	

ure alerts for harsh driving, including arsh braking and cornering, and more.

r Idle Time Logging - i.e. idle time threshold, idle other or not the accelerometer should prevent

does not move for a specified time frame.

er and run hour logging.

for speeding. If the asset exceeds this speed, a uzzer made to sound. The device can log over the threshold for detailed alerts.

ehaviors such as how long the device will attempt re energy in poor signal conditions.

requirements such as the minimum PDOP, peed Accuracy required for a valid fix.

nming or interference is detected. Devices can nming/interference is detected and when it stops.

puts to read sensors such as fuel probes, k level sensors and set thresholds to generate

bias resistor value on digital inputs. Configure uts are active/inactive.

d or Switched Power outputs for use with ays, or control a pump or other equipment.

ns based on the combined state of multiple old.

Parameter Examples Continued...

Network Settings - Parameter Examples

Parameter	Description
APN	Configure the APN the device will use to connect to the network.
Network Optimization	Configure the Radio Access Technology (LTE-M or NB-IoT) and Network Bands the device will attempt to connect on to optimize battery life and roaming performance.
Iridium	Enable Iridium uploads for when an Iridium Edge is connected to a G120. Alter Iridium-specific logging settings including in trip log intervals and heartbeats to manage data usage.
Registration Timeouts and Strategy	Configure Network Registration Timeouts and the strategy the device uses to balance getting connected and conserving power when out of coverage.

Tracking Behaviors continued

Parameter	Description
Recovery Mode	Configure the behavior of the logging interval, and more).
Run Detection	Configure trips to begin and (asset battery voltage).
Scheduled Uploads	Configure uploads to occur changes.
Tamper Detection	Configure alerts if a device magnetic tamper sensor.
Tip Detection	Configure logging and uplo user-defined threshold.
Tracking Modes	Configure device to report occurs - GPS or accelerome

Tracking Behaviors - Parameter Examples

Parameter	Description	
Accelerometer Settings and Wakeup Behavior	Configure the intensity and duration of vibration which will begin a trip or prompt GPS checks.	
After Hours	Set After Hours start and end days and times with alternate reporting behaviors.	
Bluetooth Tag and Sensor Scanning	Set Bluetooth scanning parameters i.e. scanning on trip start/end/in-trip, which tags to scan for, and more.	
GPS Movement Trips	Configure the amount of movement required to begin and end a trip.	
High-G Detection	Configure a threshold to trigger impact alerts.	
Logging	Customize numerous 'In Trip' logging features including frequency of device logging, heading change logging, and more. Enable/Disable log triggers such as start of trip, end of trip, and more.	

the device while in Recovery Mode (live tracking,).

nd end based on changes in external voltage

ar at specific times of the day, such as shift

e is removed from an asset activating the

oad behavior when device is tilted beyond a

t on set time intervals and/or when movement neter based.



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