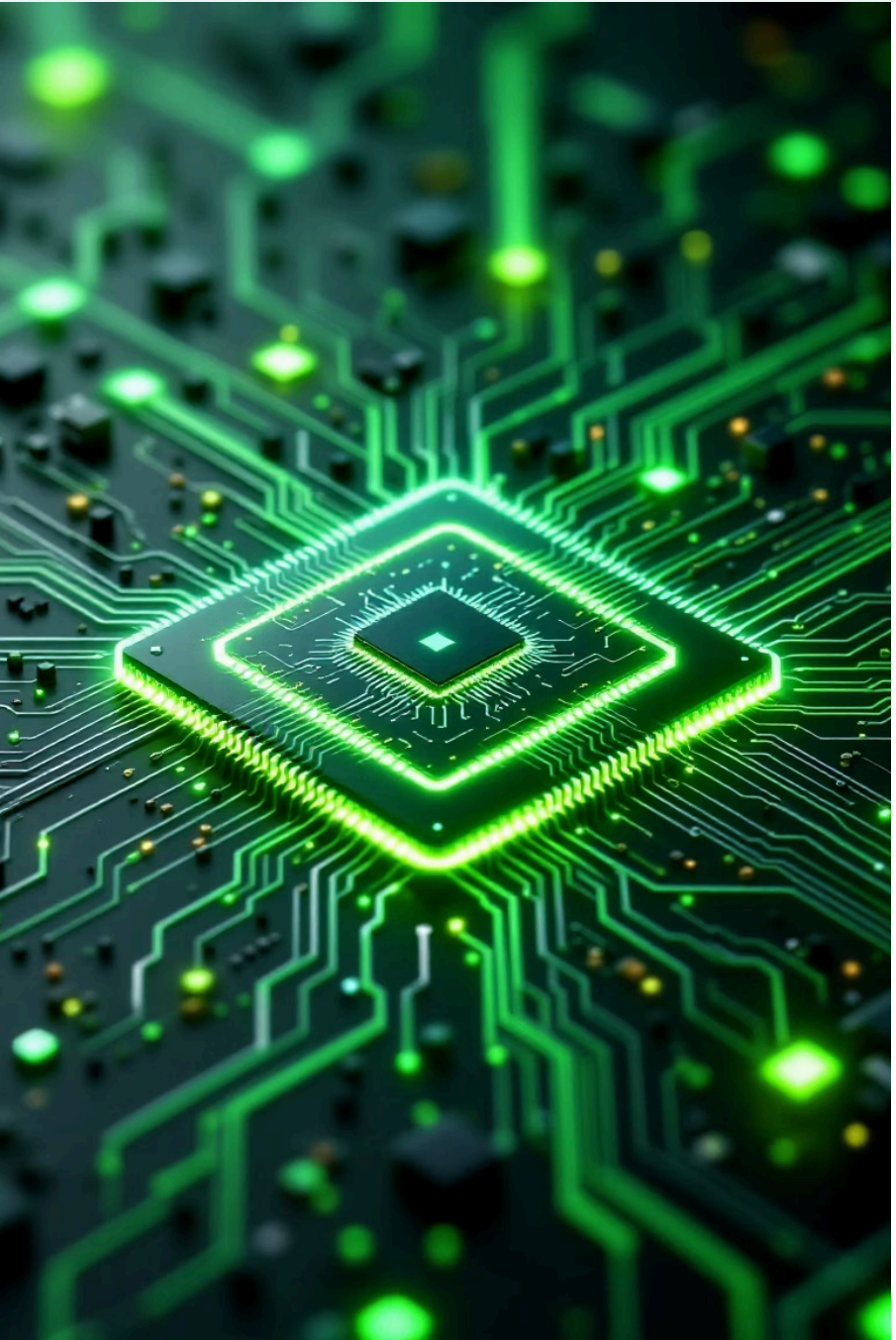
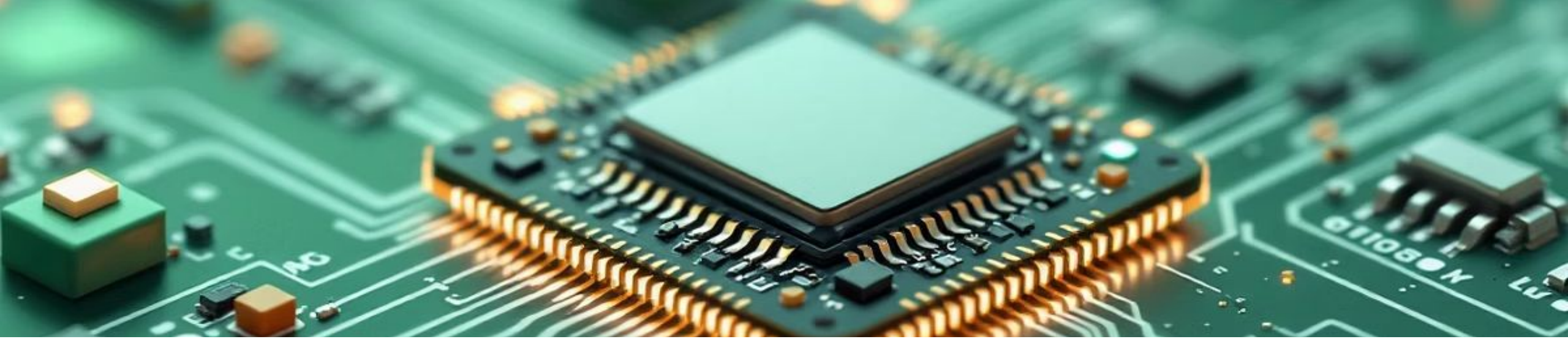


# GMCTech

## GLOBAL MODULE CORE TECHNOLOGY



# Our Mission

Each element reflects our commitment to innovation and excellence.

## **G**lobal

Developing solutions for worldwide usage and accessibility.

## **M**odules

Unique, compact, and high-quality wireless modules.

## **C**ore

Specializing in design and production of advanced tech.

## **Tech**nology

Innovations like GPS, GNSS, NFC, Cellular, BLE, & More

# Leadership Team



Guy Chen

- **E2 Electronics Inc.:** Owner/Founder
- **Taditel Automotive:** Electronics Design Project & Engineering Lead
- **ECI Telecom:** Senior PCB Designer



Igor Mindel

- **DSIT - Applied Materials:** Senior HW Engineer
- **OriginGPS:** Technical Support Manager
- **Defense Technology:** R&D Team Leader

# Journey: Key Milestones

From E2 Electronics' inception in 2001 to the establishment of GMCTech

Our history is marked by continuous innovation in compact modules design.

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# Available Products

GMCTech offers advanced, compact modules designed for superior performance across diverse applications

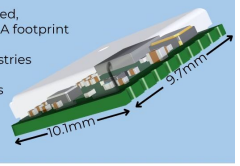
## GMCTech
### GLOBAL MODULE CORE TECHNOLOGY

Cost-effective and feature-rich GNSS modules; fully integrated, same size and pin-compatible with U-blox MAX® Series LGA footprint

Ideal for a wide variety of GNSS-based solutions across industries

A slam dunk for space contained applications like wearables and compact IoT trackers

**Low cost and improved signal reception**




#### ADVANTAGES

- Same size and footprint as U-blox MAX® Series
- Minimal power consumption
- Lower switching cost to **GMCT098-ABE**, accelerating adoption
- Drop-in replacement with direct swap and no design change
- Cost, BOM, and complexity reduction
- B1C and L1C bands of Beidou-3 and GPS, making the positioning accuracy close to the dual-frequency standard

***Easily integrated, added value, high performance, in a small package***

#### SPECIFICATIONS

| Subject | GMCT098-ABE |
|---|---|
| Size [mm] | 9.7 x 10.1 x 1.6 |
| Antenna | External |
| DC Supply | 1.8V |
| Interfaces | UART-I2C |
| Accuracy | < 1.5m |
| I/O level [V] | 1.8 - 3.3 |
| Rates [Hz] | 1 - 10 |
| Max power | 59mW |
| GNSS SOC | AG3352B (Flash) |
| Senstivity | -167dBm |

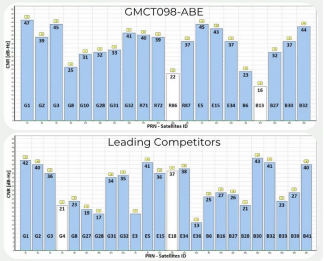
#### ORDERING INFORMATION

| | |
|---|---|
| GMCT098-ABE | GNSS Module |
| GMCT098-ABE-USB | USB Demo Board |

GMCT098-ABE **price $6.5@100Kpcs**

GMCT098-ABE-USB **price $150@1pc**

#### PERFORMANCE




#### CONTACT US

GMCTec.info@gmail.com

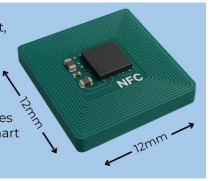
## GNSS Module 10.1×9.7mm

## GMCTech
### GLOBAL MODULE CORE TECHNOLOGY

Unlock seamless NFC TAG connectivity with GMCTech's compact, cost-effective NFC modules.

Fully integrated NFC module with built-in antenna, optimized antenna tuning, and no external components required.

Ideal for a wide variety of NFC-based applications across industries including wearables, access systems, product authentication, smart packaging, and IOT solutions.




#### ADVANTAGES

- Based on state of the art ST SOC
- **Contactless communication via NFC module**
- Integrated built-in antenna
- **External components are not required**
- Pre-tuned capacitors for optimal performance
- NFC communication range of up to 25mm
- Designed for **easy integration** and **cost efficiency**
- Compact size: 12×12 mm (10×10 mm coming soon)
- Ideal for smart devices, secure access, and more
- Fast data transfer between $I^2C$ and NFC Interface

***Easily integrated, low cost, high value all in a tiny footprint***

#### SPECIFICATIONS

| Subject | GMCT144-SCS |
|---|---|
| Size [mm] | 12 x 12 x 1.3 |
| Antenna | Internal (Built-in) |
| Antenna tuning | Integrated |
| External components | Not required |
| Connection distance | < 25mm |
| Interfaces | RF and $I^2C$ |
| DC Supply [V] | 1.8 - 5.5 |
| ISO/IEC | 15693 |
| NFC SOC | ST25DV64 |
| Memory | 64Kbit EEPROM |

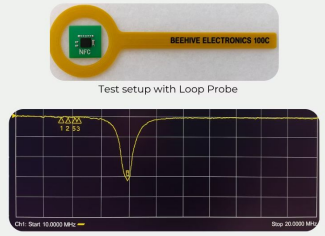
#### ORDERING INFORMATION

| | |
|---|---|
| GMCT144-SCS | 12x12 NFC Module |
| GMCT144-SCS-CON | NFC Demo Board |
| GMCT100-SCS* | 10x10 NFC Module |
| *Coming soon | |
| GMCT100-SCS-CON | NFC Demo Board |

GMCT144-SCS **price $3.6@100Kpcs**

GMCT144-SCS-CON **price $50@1pc**

#### PERFORMANCE




Test setup with Loop Probe

S11 measurment of GMCT144-SCS

#### CONTACT US

GMCTec.info@gmail.com

## NFC Module 12×12mm

## GMCTech
### GLOBAL MODULE CORE TECHNOLOGY

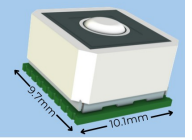
US corporation
Non-Chinese content
Reliable Performance

Cost-effective and feature-rich GNSS modules, **fully integrated with a patch antenna**, and **pin-compatible with U-blox MAX®** Series LGA footprint

Ideal for a wide variety of GNSS-based solutions across industries

From asset-grade reliability to ultra-compact wearables and IoT trackers, we power the future of precision tracking

**Improved signal reception and reliable performance**




#### ADVANTAGES

- Cost, BOM, and complexity reduction
- Drop-in replacement with direct swap and no design change
- Anti-jamming and Anti-spoofing, integrated 12 multi-tone active interference cancellers
- Indoor and outdoor multi-path detection and compensation
- Multi-GNSS, making the positioning accuracy close to the dual-frequency standard (L1 & L5)
- Orbit prediction and self-generated prediction
- RAW Data, RTCM, and NMEA

***Easily integrated, added value, high performance, in a small package***

#### SPECIFICATIONS

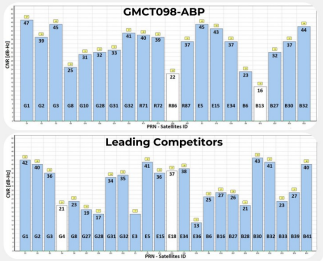
| Subject | GMCT098-ABP |
|---|---|
| Size [mm] | 9.7 x 10.1 x 5.8 |
| Antenna | Internal Patch |
| DC Supply | 1.8V |
| Interfaces | UART-I2C |
| Accuracy | < 1.5m |
| I/O level [V] | 1.8 - 3.3 |
| Rates [Hz] | 1 - 10 |
| Power | 28µW / 39mW |
| GNSS SOC | AG3352B (Flash) |
| Senstivity | -167dBm |

#### ORDERING INFORMATION

| | |
|---|---|
| GMCT098-ABP | GNSS Module |
| GMCT098-ABP-USB | USB Demo Board |

GMCT098-ABP-USB **price $150@1pc**

#### PERFORMANCE




#### CONTACT US

info@gmct.net

## GNSS Patch Module 10.1×9.7mm



# Target Markets

GNSS deployments are growing steadily, with increases in potential use cases for location technologies and democratized access to GNSS. Annual shipments will rise from 1.6 billion units in 2023 to 2.2 billion in 2033,

- Defense
- IoT Products
- Pet/Human Tracking
- Fleet Management
- Agriculture
- SmartCit
- Sports & Fitness
- Asset Tracking
- Industrial Solutions
- Law Enforcement
- Wearable Devices

# Company Roadmap

Outlines strategic releases, focusing on NFC and GNSS technologies to meet evolving market demands.

**Q2 2025**
NFC
12x12mm
GMCT144-SCS
G3B / GNSS
10.1x9.7mm
GMCT098-ABE

**Q4 2025**
Client Samples
Evaluation Boards
&
OriginGPS Stock
and/or support

**Q2 2026**
NFC 10x10mm
GMCT100-SCS

**Q4 2026**
G3B / GNSS
10.1x9.7mm
GMCT098-ABP
Internal Antenna

**2027**
L1&L5 GNSS
Type1 & Type2

We offer flexibility for custom module development based on specific requests or market opportunities.

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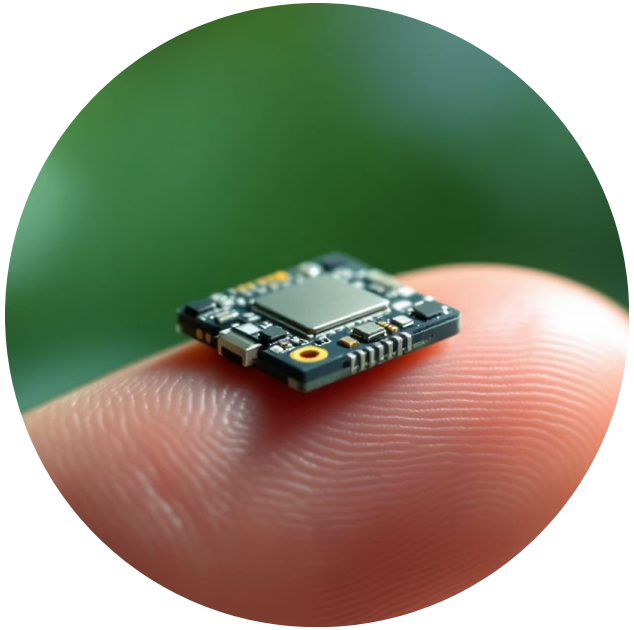
# Potential Customers

We collaborated with leading companies across various sectors, demonstrating the versatility and reliability of GMCTech potential - Motorola, Tractive, Deeper, FitBark, Innoseis BV and more.



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# Thank You!