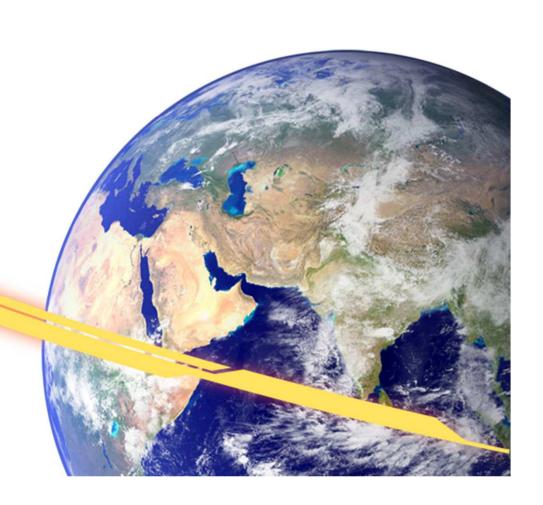


Globalto

GlobalTop Technology Inc.

## Company Profile

"Your Need is Our Mission"





## GlobalTop Technology Inc.



## GlobalTop designs & manufactures:

Versatile OEM/ODM premier-quality GPS modules



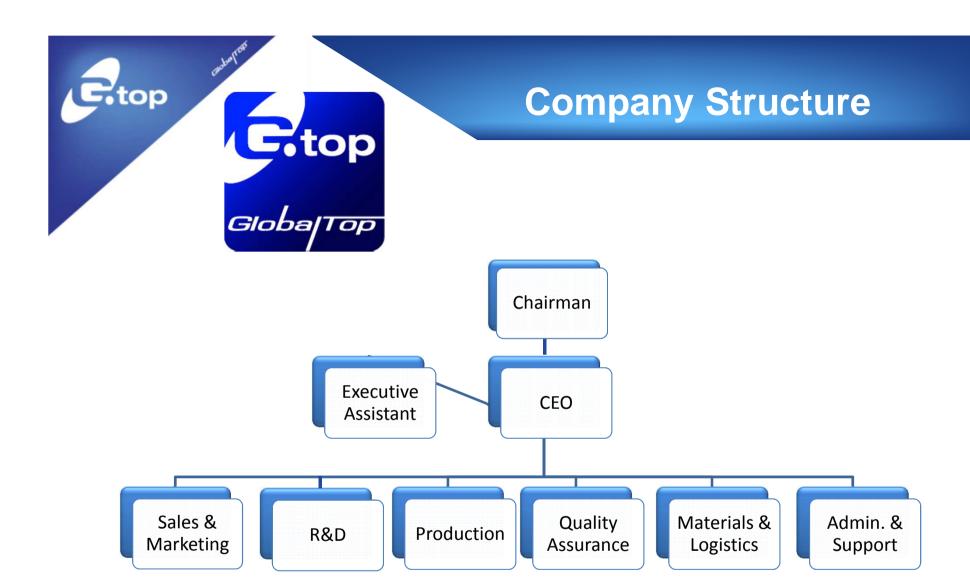
- Total Capital: NT\$ 250M (US\$ 8.33M)
- Over 70 employees
- Two locations in Taiwan including a new
   4,500 square meter Manufacturing facility



## **Company Information**

- Over 70 employees:
  - R&D Teams (Software, Hardware and Production Engineering)
  - Sales & Marketing Team
  - Purchasing Team
  - Manufacturing Team
  - QA Team
  - Warehouse & Logistics Team
  - Finance & Human Resources Team
- Located in Taiwan's Southern Science Park in Tainan with a well-integrated supply chain administered to enforce strict regulatory requirements.
- New 4,500 square meter facility ensuring adequate manufacturing capacity for sudden high-volume rush orders.







## **GlobalTop GPS Advantage**



- Taiwan's #1 Quantity GPS module supplier
- High quality easy-to-use versatile modules:
  - Designed with quality components (TCXO, Flash)
  - Evaluation kit & extensive documentation
  - Standardized firmware with customization
- Comprehensive design support and service
- Complete range of manufacturing services
- Production with tight Quality Control and speedy Logistics



## **GPS Module Product Series**

#### **GNSS Modules List**

Туре	Model	Chipset	Size	Sensitivty		Power	
		7	(mm)	Acquisition (dBm)	Tracking (dBm)	Acquisition (mA)	Tracking (mA)
Standalone	Gmm-g3	MT3333	11.5*13*2.1	-148	-165	35	29
	SL3C	MT3339	11.5*13*2.1	-148	-165	25	20
	Gmm-u2p	MT3339	9*12.7*2.1	-148	-165	19	15
	Gmm-u1	MT3329	13*10*2.1	-148	-165	48	37
	SL2B	MT3329	13.1*15.9*2.2	-146	-165	34	27
	Gmm-u5j	MT3329	22.4*17*2.2	-148	-165	33	26
	Gmm-u5LP	MT3329	22.4*17*2.2	-148	-165	30	24
Antenna	Gms-g9	MT3333	19.5*19.5*7.5	-148	-165	35	29
	PA6C	MT3339	16*16*6.2	-148	-165	25	20
	PA6H	MT3339	16*16*4.7	-148	-165	25	20
	PA6B	MT3329	16*16*6	-148	-165	48	37
	PA6E	MT3329	16*16*6	-148	-165	48	37
	Gms-u5LP	MT3329	22.4*17*6.4	-148	-165	33	26
Chip Antenna	Gms-u6b	MT3339	16*16*2.1	-148	-165	25	20
	Gms-g6a	MT3333	16*16*2.1	-148	-165	35	29

#### **GPS Modules Series:**

GPS Standalone Modules [Gmm Series / SL Series]:

- Very small form factor utilizing an external antenna
- Suitable for experienced system designers
- Multi-GNSS engine for combined GPS/GLONASS

GPS Antenna Modules [Gms Series / PA Series]:

- Integrated passive antenna
- Easy-to-use design
- Embedded GPS/GLONASS antenna

GPS/GLONASS Chip Antenna Modules [Gms Series] :

Miniature size module with embedded GNSS chip antenna











GPS/GLONASS Standalone Modules: **Gmm-g3** 

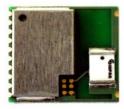
GPS Antenna Modules: PA6H







#### GNSS Standalone Modules: Gmm- g3



GNSS chip antenna Modules: Gms- g6a





GNSS Antenna Modules: Gms- g9

## **GPS Module Product Series**

## **GNSS Modules Feature Groups:**

#### MT3333 Series

Advanced features:

- Synchronously receiving dual system GPS+GLONASS enhances performance even in poor working conditions.
- Dual system modules bring double power performance.
- EPO (Extended Prediction Orbit) Data Service
   World leading technology supports 7/14 days orbit prediction
   Utilizes occasional download from EPO ™ server
- EASY ™ (Embedded Assisted System)
   Supported by the 1Hz update rate and VBACKUP function
   Up to 3 days extension for single received ephemeris
- AlwaysLocate ™ Intelligent Algorithm
   Always provides immediate accurate location with extremely low power consumption (GPS receiver does not need to be fully powered-up)
- LOCUS
   Innate Logger Solution

#### Availability:

**GPS Standalone Modules:** 

• Gmm-g3

GPS chip antenna Modules:

• Gms-g6a

**GPS Antenna Modules:** 

Gms-g9







GPS Standalone Modules: Gmm-u2p



GPS Antenna Modules: PA6H

## **GPS Module Product Series**

### **GPS Modules Feature Groups:**

#### MT3339 Series

Advanced features:

- Ultra Low Power Consumption
- Multi-tone Active Interference Canceller
   Provides effective elimination of narrow-band interference and jamming
- EPO (Extended Prediction Orbit) Data Service
   World leading technology supports 7/14 days orbit prediction
   Utilizes occasional download from EPO ™ server
- EASY ™ (Embedded Assisted System)
   Supported by the 1Hz update rate and VBACKUP function
   Up to 3 days extension for single received ephemeris
- AlwaysLocate ™ Intelligent Algorithm
   Always provides immediate accurate location with extremely low power consumption (GPS receiver does not need to be fully powered-up)
- LOCUS
   Innate Logger Solution

#### Availability:

**GPS Standalone Modules:** 

- FGPMMOSL3C
- Gmm-u2p

**GPS Antenna Modules:** 

- FGPMMOPA6C
- FGPMMOPA6H (lower overall profile)



## **GPS Module Product Series**



GPS Antenna Modules: Gms-u5LP



GPS Standalone Modules: Gmm-u5LP

#### **GPS Modules Feature Groups:**

#### u5 Series

Great cost savings in a 22.4 x 17mm form factor

- Gms-u5LP
   With embedded antenna for production without fine-tuning
- Gmm-u5j
   With revolutionary Anti-JACK technology. This feature detects nearby GPS jammers and notifies the host system or alarm/security devices via protocol (S/W output) or voltage level (H/W output).
- Gmm-u5LP
   With Advisor feature: smart antenna status detection & reporting

#### Availability:

**GPS Standalone Modules:** 

- Gmm-u5 LP
- Gmm-u5J

GPS Antenna Modules:

GmS-u5 LP

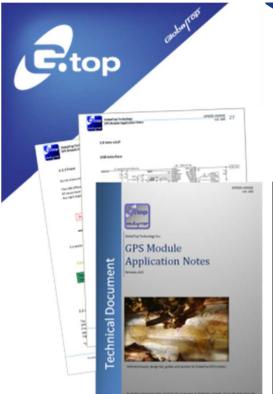


## **GPS Firmware Customization**

Versatility in the GPS module's firmware is a key integral part of GlobalTop's successful product lineup.

(More can be found on GlobalTop's website www.gtop-tech.com under Products / Software Services)





## **Design Support & Documentation**



## **Comprehensive Documents and Software**

- **Datasheets & Application Notes** 
  - Design guides, tips and cautions
  - Reference Schematics
- **PMTK Command Documents**
- Mini GPS Tools, AGPS Tools, Data Logger Tools

#### **Before & After Sales Technical Service**

- Quick response to questions (less than a day)
- Customer design / schematic review

## **Direct Support from IC Chipset Supplier MTK**

- GlobalTop is an MTK Alpha Site
- Close interaction with MTK for features implementation and problem-solving





## **Smart Manufacturing**

GlobalTop follows a strict work flow utilizing advanced management tools to ensure correct orders ship to customers on time, every time.



## **Customer Relationship Management**

- Fast, Responsive Customer Service
- Dedicated staff for problem solving



## **Firmware Manufacturing Control**

- Hundreds of possible firmware combinations
- Ensures the correct firmware is written onto your module



## **Quality Control**

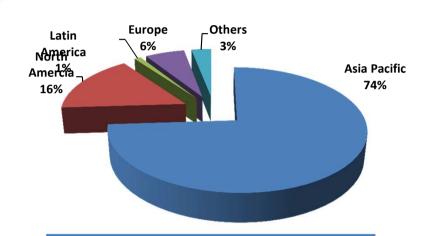
- Product management certified to ISO9001 (2009) / TL9000 standard
- Quality Inspections follow Standard Military Sampling Procedures (MIL-STD-105E)



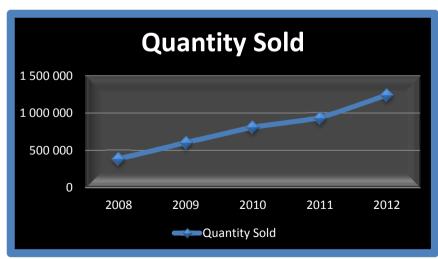


## By the Numbers: 2012 Sales

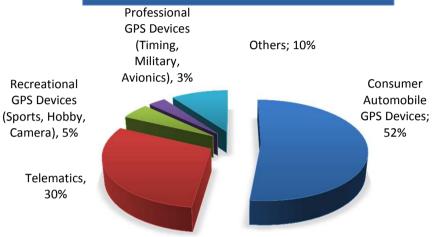
#### **Quantity Sold by Regions (2012)**



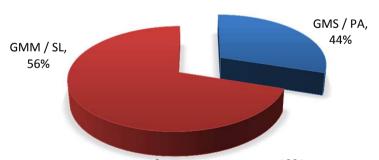
### **Quantity Sold by Year (All Products)**



## Module Applications (2012)



#### Type of Modules Sold (2012)



More than 1.25 Million GPS products sold in 2012!



**GlobalTop Manufacturing** 

## GlobalTop Manufacturing



Factory facility at the Science-based Industrial Park in Tainan (Southern Taiwan)



## Factory Qualifications & Product Certifications



- ISO 9001
- UL, TUV, FCC, CE, RoHS, etc.
- OEM Customer Quality Audits









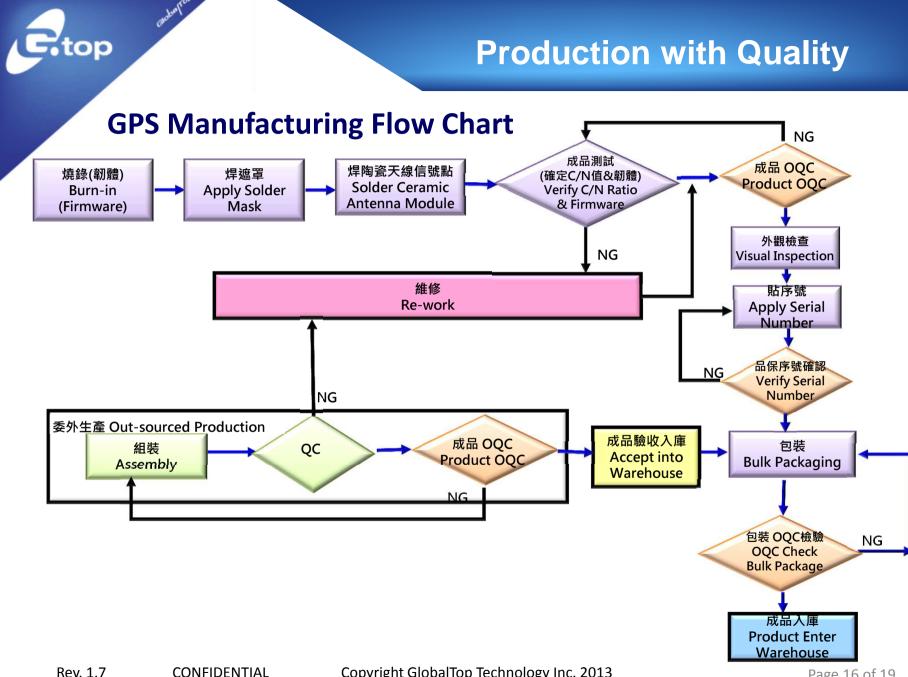




**Quality Assurance** 

- Incoming (Supplier) Quality Control
- In-Process Quality Check
   100% inspection (each unit is completely checked)
- Incoming & Final Quality Check
   MIL-STD-105E AQL 0.65%, Normal Inspection, Level 2







## **Contact**

# GlobalTop Technology Inc.

## **Tainan Office & Factory**

Address: No. 16, Nan-Ke 9th Road,

Science-Based Industrial Park,

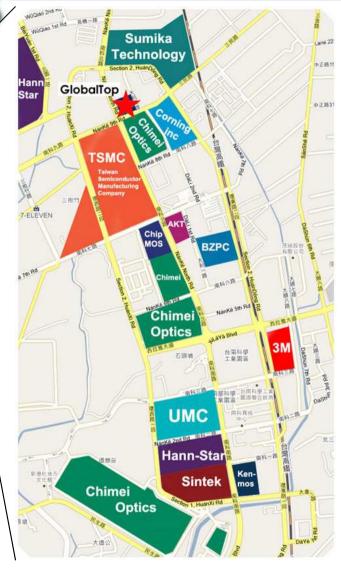
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Fax: +886 6 5053381

Email: <a href="mailto:sales@gtop-tech.com">sales@gtop-tech.com</a>

Web: www.gtop-tech.com





# Thank you!