GlobalTop Technology Inc.

Company Profile

We Make GPS Smarter Than Ever
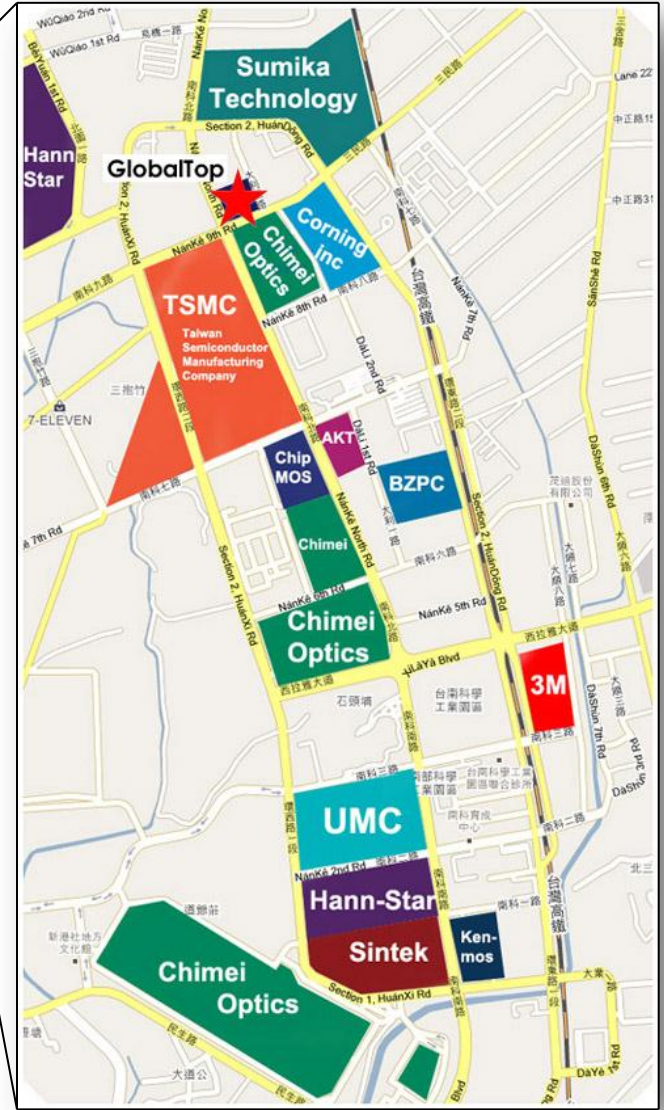
2011 Q2

Who Are We?

- GlobalTop design, customize, and manufacture premier quality GPS modules.

- GlobalTop offers a variety of ready-to-use, or custom written firmware features that enhances the GPS modules' versatility and saves previous development time.

- GlobalTop specializes in working with our customers to bring our the potential of our products.

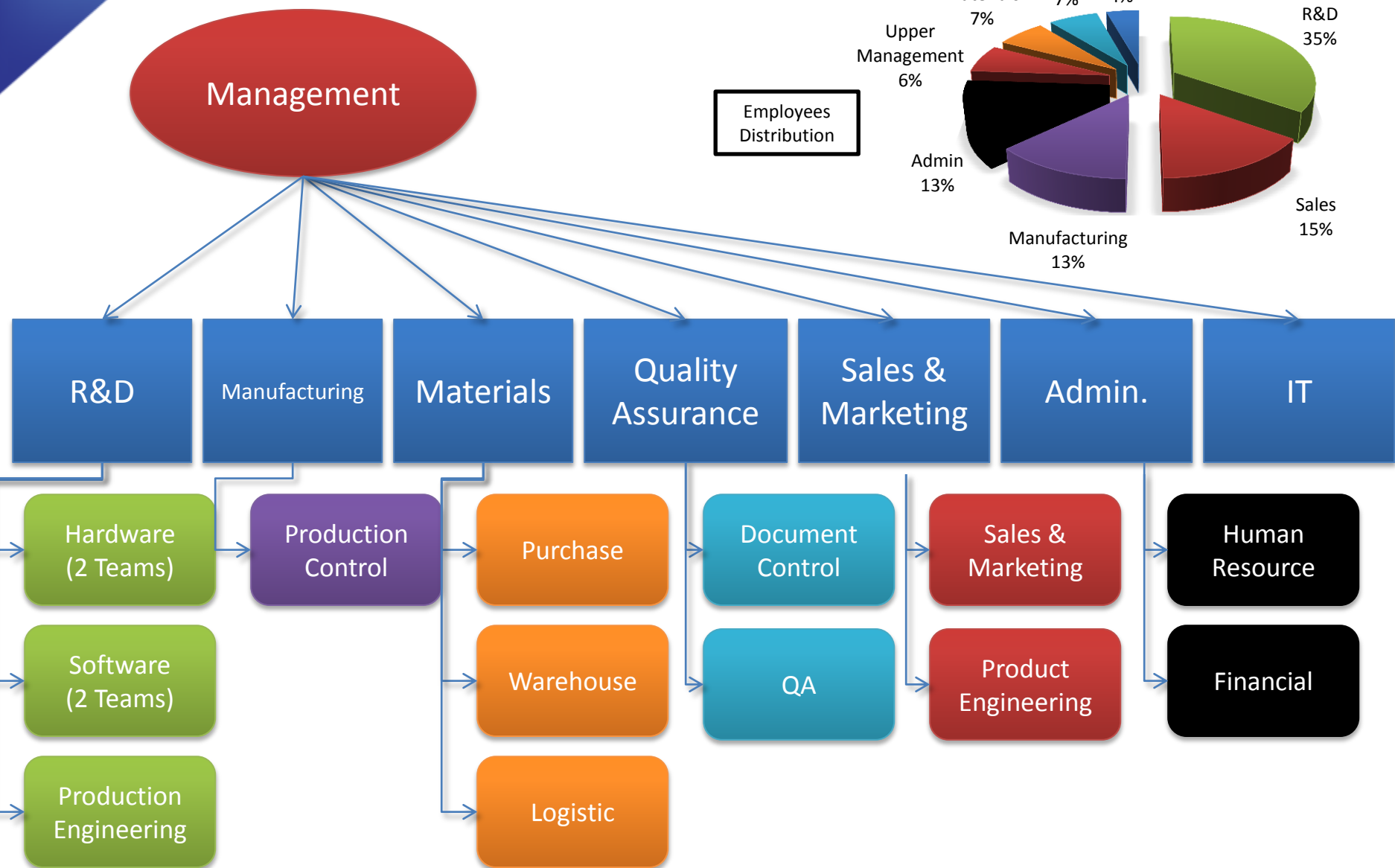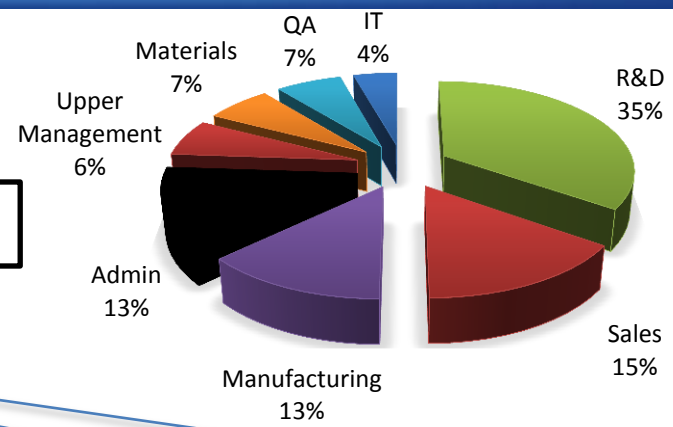- Our motto is "Your Need is Our Mission".

- Total Capital of 200 million NTD
  (6.75 million USD)

- 46 employees total, spanning across:
  - 4 RD Teams (2 for Software, 2 for Hardware)
  - Sales Team & Product Design Support Team
  - Purchase Team
  - Manufacture and QA Team
  - Finance and Human Resource Team

- Located in Taiwan, Southern Science Park in Tainan, with well integrated supply chain, and administration that enforces strict regulatory requirement.

- New 10,000 square meter facility: ensuring adequate manufacturing capacity for sudden high-volume rush orders.

Company Structure

Management

Employees Distribution

Pie chart — Employees Distribution:
- R&D 35%
- Sales 15%
- Manufacturing 13%
- Admin 13%
- Upper Management 6%
- Materials 7%
- QA 7%
- IT 4%

Organizational Chart

Management branches to:

| R&D	Manufacturing	Materials	Quality Assurance	Sales & Marketing	Admin.	IT
Hardware (2 Teams)	Production Control	Purchase	Document Control	Sales & Marketing	Human Resource	
Software (2 Teams)		Warehouse	QA	Product Engineering	Financial	
Production Engineering		Logistic				

- #1 GPS module supplier in Taiwan in terms of quantity

- Quality, easy to use, versatile GPS modules:
  - Designed with quality components (TCXO, Flash)
  - With comprehensive documentation
  - Standardized firmware customization
  - Evaluation-kit available

- Comprehensive design support and aftersales service

- Tight manufacturing and quality control with speedy logistics

- **"I think your company has earned a long term customer with the high quality service and support you are providing, much higher quality than any other overseas vendor I have dealt with."** – Praises given to us after we modified a specific customized data output stream for timing applications.

- **"Thank you for all your help. I was very happy with your team's prompt support response to our questions. We will address the noise issue in our next board design and I don't anticipate any more issue."** – Our technical support was able to solve their interference issue through hardware review

- **"We have now finished our testing and everything has been positive ;) The performance is as expected and the antenna present and short-circuit detection also works perfect." -** From a satisfied customer who has switched to GlobalTop solutions

GPS Standalone Modules: Gmm-u1
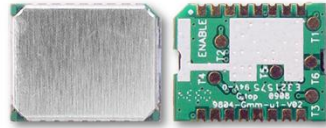
GPS Antenna Modules: PA6B

GPS Modules Series:

GPS Standalone Modules [Gmm Series / SL Series]:
- External antenna connection only, very small form factor
- Suitable for experienced system designer

GPS Antenna Modules [Gms Series / PA Series]:
- Integrated passive antenna
- Easy to design with

**GPS Modules Feature Groups:**

LP (Low Power)
- New modules with switching mode power supply technology built-in
- Up to 50% power saving compared to old PA and SL Series
- 24 mA @ Tracking, 30mA @ Acquisition (Typical @ 3.0v)

J (Jamming Detect)
- Able to detect GPS jamming signal and sent warning via serial interface and hardware voltage level
- Auto sensitivity adjustment with additional power saving mode
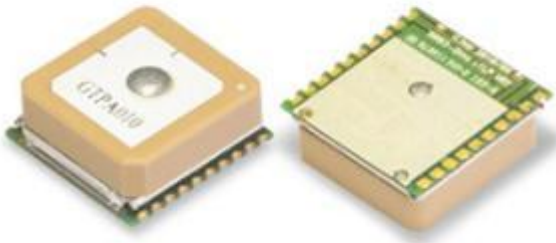
GPS Antenna Modules: Gms-u1LP

GPS Antenna Module: Gms-u1LP

- **Low power consumption:**
  - 24mA @ Tracking / 30mA Typical @ Acquisition
- **Integrated ceramic GPS antenna**
- **Ability to connect to external active antenna**
  - Automatic switching to external antenna upon connection
  - External antenna shortage protection
- **-165dBm Ultra-high Sensitivity, 10Hz Update**
- **DGPS, RTCM, 1PPS ,USB Support**

GPS Antenna Modules: Gmm-u5LP

GPS Standalone Module: Gmm-u5LP

- **Low power consumption:**
  - 24mA @ Tracking / 30mA Typical @ Acquisition
- **Popular Form Factor**
- **Antenna Advisor**
  - Active & Passive Antenna Detection & Notification
  - Open Circuit Detection & Notification
  - Short Circuit Detection & Notification
- **-165dBm Ultra-high Sensitivity, 10Hz Update**
- **DGPS, RTCM, 1PPS, USB Support**

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

* More can be found on GlobalTop website www.gtop-tech.com under Products / Software Services

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

- **Direction Support from IC Chipset Supplier MTK**
  - GlobalTop is Alpha Site for MTK GPS Solution
  - Directly work with MTK on GPS features implementation and problem solving

- **Before & After Sales Technical Service**
  - Quick response to any questions (less than a day)
  - Customer design / schematic review
  - Tailor-made hardware and software customization
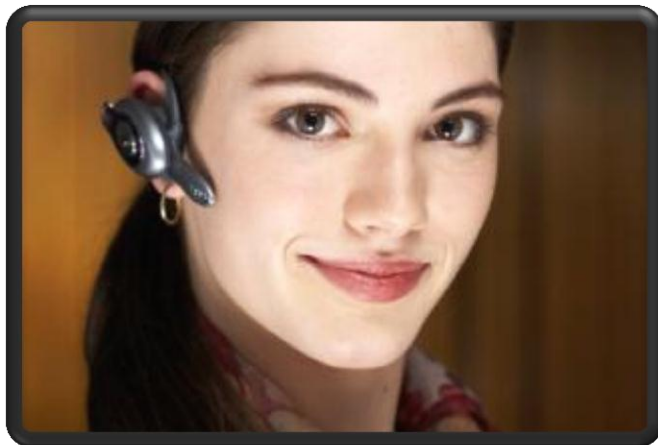
GlobalTop follows a strict work flow with the aid of advanced management tools to ensure the correct order ships to our customers on time, every time.

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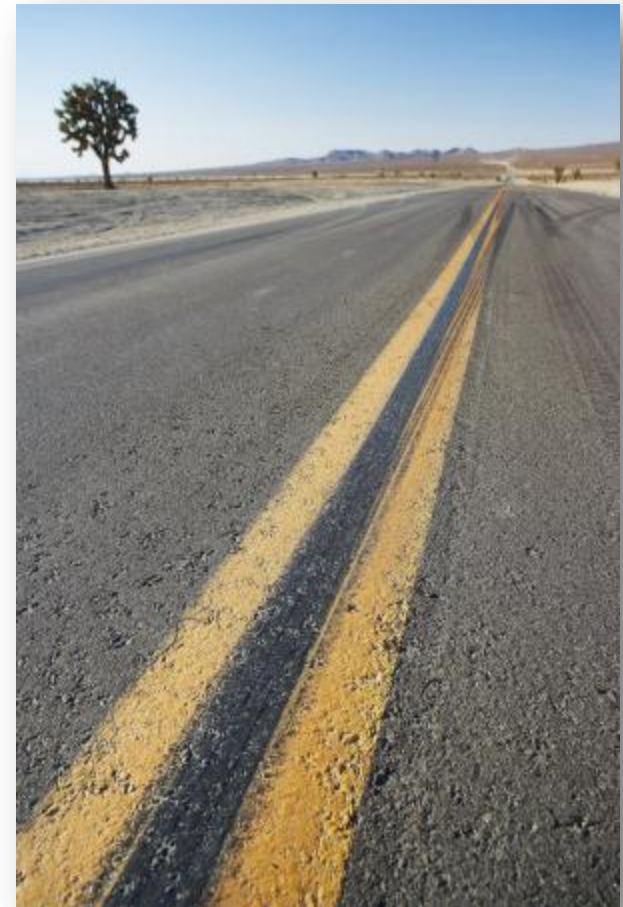- Dedicated staff for problem solving

Firmware Manufacturing Control
- Hundreds of firmware combinations possible.
- Ensures the correct firmware is written onto your module

Quality Control
- Product management according ISO9001 (2009) / TL9000 standard
- Quality Inspections follows Standard Military Sampling Procedures (MIL-STD-105E)

- **Publications (Newsletter)**
  - New products / New firmware customizations
  - GlobalTop application trends and corporate information
  - Quarterly Release

- **Media Portal**
  - New improved website for easy to find information
  - Twitter and Facebook for instant update on documents and development news

- **Exhibitions**
  - **Active participation in exhibitions and events**
    - 2010 International Symposium on GPS/GNSS (Taipei / Taiwan)
    - 2011 Embedded World (Munich / Germany)
    - 2011 CTIA (Florida / USA)

Academics Community Support
  - **Active involvement in supporting cutting edge and interesting applications using GPS**
    - NTU: National Park Mountain Climber Monitoring System using Zigbee
    - University of Illinois: Structural Health Monitoring System
    - University of Linkoping: UAV automatic control

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