Global and China Telematics Box (T-Box) Industry Report, 2016-2020

Description: T-box, posing the same strict requirements as the vehicle on reliability, working temperature, anti-interference, and so forth, is a standard terminal for the connected car, providing diversified online applications like vehicle remote monitoring, remote control, safety monitoring and alarming, and remote diagnosis by means of 4G remote wireless communication, GPS satellite positioning, acceleration sensing and CAN communication functions.

With the popularity of telematics as well as the demand of new energy automakers on real-time information about battery and vehicle status, the global T-box market size will be up to USD3.4 billion in 2020, with a CAGR of 25% or so, according to our forecast. The entry of the internet industry will drive the growth of such market as well.

The world's IC market size was approximately USD287.1 billion in 2015, of which the automotive IC market accounted for 7.3%; and in 2019 the IC market scale will climb to USD358.7 billion, but the automotive IC market share will edge up 0.8 percentage points from 2015 and the size is to hit USD29.2 billion mainly because of the gradual fall in the cost and price of automotive IC, especially MCU, analog components, the logic components for special applications, etc.

In the automotive electronic system, the in-vehicle electronics have seen a rising share year after year, with the share 2% higher in 2015 than that in 2011. The automotive electronic system occupies at most 30% of total costs of an ordinary car but makes up more than 50% of total costs of a new energy vehicle.

During 2015-2020, the new energy vehicles in China will present a CAGR of 57.6%, giving strong impetus to the development of Chinese automotive electronics market. We believe that the automotive electronics market size of China will show a CARG of over 20% in the next five years and will reach RMB1,000 billion.

As the output of OEM terminals increases and market competition pricks up, both price and cost of T-box will decrease by degrees. The penetration rate of pre-installations will be 30% in 2020 when Chinese T-box market size is believed to hit RMB8.1 billion.

The main players in T-box field consist of Huawei Technologies, Flaircomm Microelectronics, Thread Tech, etc., yet the rivalry is still mainly from foreign competitors such as Bosch, Continental, Harman, Denso and LG. Still about 95% of T-box market in China is to be developed because CANBUS protocol development is quite difficult. We expect that the detailed national rules and regulations will be issued at the end of 2016, and by then the rate of T-box pre-installations in new energy vehicle will be significantly improved, growing from less than 50% at present to close to 100% as estimated.

Global and China Telematics Box (T-Box) Industry Report, 2016-2020 focuses on the followings:

- Global and Chinese T-box market size, shares and development tendencies, particularly analyzing the future technology roadmap of T-box;
- Comparative analysis of T-box makers and applications in countries/regions worldwide;
- Upstream industry chain of T-box: automotive IC and automotive sensor markets;
- Development of automotive electronics market in China;
- T-box market environment, policy climate, etc in China;
- Five key T-box brands and four T-box related manufacturers’ technical solutions, T-box business, and otherwise;
- Operation, technologies, development planning of 12 Chinese T-box manufacturers as well as their support for vehicle models.

Contents:

1 Overview of T-box
   1.1 Definition
   1.2 Classification
   1.3 Working Principle
   1.4 Composition
1.5 Function
1.6 Application

2 Global T-box Industry
2.1 Global T-box Market
2.1.1 Market Size
2.1.2 Market Share
2.1.3 Development Trend
2.2 T-box Development in Major Regions Worldwide
2.2.1 North America
2.2.2 Europe
2.2.3 Asia-Pacific
2.3 Upstream Industry Chain
2.3.1 Automotive IC
2.3.2 Automotive Sensor
2.4 Major Foreign T-box Brands
2.4.1 On-Star
2.4.2 ATX
2.4.3 G-BOOK
2.4.4 Carwings
2.4.5 Bluelink

3 Foreign T-box Companies
3.1 Telit
3.1.1 Profile
3.1.2 T-box Chip Solution and Specifications
3.1.3 T-box Module R&D Team Staffs
3.1.4 Cities where T-box Module R&D Teams are Located
3.2 Sierra
3.2.1 Profile
3.2.2 T-box Chip Solution and Specifications
3.2.3 Cities where T-box Module R&D Teams are Located
3.3 U-blox
3.3.1 Profile
3.3.2 T-box Chip Solution and Specifications
3.3.3 Cities where T-box Module R&D Teams are Located
3.3.4 T-box Module Sales
3.3.5 Future Roadmap of T-box Module
3.4 Harman
3.4.1 Profile
3.4.2 T-box Business

4 China T-box Industry
4.1 Development of Automotive Electronics in China
4.2 T-box Development in China
4.2.1 Market Size
4.2.2 Market Environment
4.2.3 User Environment
4.2.4 Policy Environment

5 Chinese T-box Companies
5.1 Huawei Technologies Co., Ltd.
5.1.1 Profile
5.1.2 Operation
5.1.3 T-box Business
5.2 ZTE Corporation
5.2.1 T-box Chip Solution and Specifications
5.2.2 T-box Module R&D Team Staffs
5.2.3 Cities where T-box Module R&D Teams are Located
5.2.4 T-box Module Sales
5.3 Shenzhen Thread Tech Co., Ltd.
5.3.1 Profile
5.3.2 Products
5.3.3 T-box Business
5.3.4 Clients
5.4 Flaircomm Microelectronics, Inc.
5.4.1 Profile
5.4.2 Operation
5.4.3 T-box Business
5.4.4 Clients
5.4.5 Core Competitiveness
5.5 Yaxon Network
5.5.1 Profile
5.5.2 Products
5.6 Shenzhen Autonet Co., Ltd.
5.6.1 Profile
5.6.2 Products
5.6.3 Vehicle Models Equipped with T-box
5.7 FutureMove Telematics Co., Ltd.
5.7.1 Profile
5.7.2 Business
5.7.3 Partners
5.7.4 Products
5.8 PATEO Corporation
5.8.1 Profile
5.8.2 T-box Business
5.8.3 Supported Vehicle Models
5.9 Guangzhou Automobile Group Co., Ltd (GAC)
5.9.1 Profile
5.9.2 Operation
5.9.3 Capacity
5.9.4 T-box Business
5.9.5 Supported Vehicle Models
5.10 Neusoft Corporation
5.10.1 Profile
5.10.2 Operation
5.10.3 T-box Business
5.10.4 Competitive Edge
5.11 Wuhan Intest Electronic Technology Co., Ltd. (INTEST)
5.11.1 Profile
5.11.2 Business
5.11.3 T-box Business
5.12 Jiangsu CAS-TIANAN Smart Science & Technology Co., Ltd.
5.12.1 Profile
5.12.2 Operation

List of Charts
- Table of Alerting Services
- Table of Cloud Services
- Table of Remote Control Functions
- Table of Information Feedback Functions
- System and Self-check
- Global T-box Market Size, 2015-2020
- Market Share of Major T-box Companies in the World
- World's Major T-box Vendors' Supporting for Clients
- Comparative Analysis of Major T-box Markets Worldwide
- T-box Utilization Areas in North America
- Main T-box Brands from Japan
- Main T-box Vendors from South Korea
- IC Market Growth Rates by End-Use Application (2014-2019F CAGR)
- Percentage of Global Automotive IC, 2015-2019
- Global Automotive IC Market Structure (%) (by Product), 2015
- Auto IC Market Growth Rates by Region (2014-2019F CAGR)
- Ranking of Major Automotive IC Makers in the World
- Evolution of Sensor Quantity Equipped to a Vehicle
- Global Automotive Sensor Market Size, 2010-2015
- China Automotive Sensor Market Size, 2012-2016
- Sensor Technology Roadmap and Autonomous Functions Associated
- Sensor Modules Market Value for Autonomous Cars from 2015 to 2030 (in $B)
- Ranking of World’s Top 10 Vehicle-use MEMS Sensor Suppliers, 2014
- On-Star Development History
- Mobile User Interface of On-Star
- Key Functions of On-Star
- On-Star Service Packages
- Manufacturers Supported by and Vehicle Models Equipped with On-Star
- ATX’s Services Aimed at Auto Makers
- ATX’s Services Aimed at Users
- G-BOOK System Structure
- LEXUS G-BOOK Smart Copilot Service
- Mobile User Interface of LEXUS G-book
- Introduction to G-book Service Functions
- Support for G Track Searching City
- Charging Standards of G-book
- Content of LEXUS Mobile Version G-book Services
- Vehicle Models Equipped with G-book
- Carwings Smart Driving Plus System Function
- Main Parameters of Nissan CARWINGS System
- Charging Standards of Carwings
- Vehicle Models Equipped with Carwings
- Main Functions of Carwings
- Main Functions of Bluelink
- Charging Standards of Bluelink
- Bluelink Payment Method
- Specifications of STA8088TG Teseo? Tracker
- Key Features of STA8088TG Teseo? Tracker
- Specifications of MT3337
- Key Features of MT3337
- Qualcomm’s QSC6270 Chip Solution
- Key Features of QSC6270
- AirPrime AR Series Solutions
- Specifications of Qualcomm Gobi MDM9x15 Series
- Connected Car Business Revenue of Harman, 2016Q1
- Distribution of Automotive Electronic System
- Application Structure of Automotive Electronics in China, 2015
- % of Automotive Electronics in Total Costs of a Vehicle
- Yearly Sales Volume of Electric Passenger Vehicles in China, 2011-2020
- Growth Rate of Chinese Automotive Electronics Market Size, 2009-2015
- China T-box Market Size, 2015-2020E
- Cooperation between T-box Vendors and Automakers
- Different Groups’ Recognition of T-box in China
- Outline of General Rules Put Forward by Four Ministries and Commissions
- T-box Development History of Shenzhen Thread Tech
- T-box Platform Functions of Shenzhen Thread Tech
- T-box Technology Roadmap of Shenzhen Thread Tech
- Future Market Planning of Shenzhen Thread Tech
- Operation of Flaircomm Microelectronics, Inc., 2012-2015H2
- V2.0 System T-box
- T-box Development Roadmap of Flaircomm Microelectronics, Inc.
- OEM Automakers Equipped with T-box
- Automotive Electronics Manufacturers Equipped with Bluetooth/WiFi or T-box
- Service Providers in TSP Cooperation
- Operators with Whom have been in Partnership
- Vehicle Models Equipped with V1.0 System
- Vehicle Models Equipped with V2.0 System
- Vehicle Models Equipped with V3.0 System
- Cloud Navigation Function of Di Di Hu
- Functions of DD Box
- Parameters of DD Box
- Basic Parameters of Jiabao Box
- Functions of Jiabao Box
- Functions of Smart Cloud Mirror
- Vehicle Models Equipped with Shenzhen Autonet's T-box
- Periodic Tasks of FutureMove Telematics and Soda Mobility Technologies
- Core Business of FutureMove Telematics
- Structure of PATEO Corporation
- Main Business Segments of PATEO Corporation
- Platform System
- Operation of GAC, 2011-2015
- Existing Capacity of GAC
- Capacity under Construction of GAC
- Vehicle Production and Sales Volume of GAC, 2015
- Trumpchi T-box Functions
- Automotive Electronics Business Development History of Neusoft Corporation
- Distribution of Neusoft's Automotive Electronics Staffs Worldwide
- Operation of Neusoft Corporation, 2015
- Main Business Structure of Neusoft Corporation, 2015
- T-box Functions of Neusoft Corporation
- Mobile APP Interface of T-box
- T-box Eco-system of Neusoft Corporation
- Automotive Electronics Business Distribution of Neusoft Corporation
- Business Development History of Wuhan Intest Electronic Technology
- Main Business of Wuhan Intest Electronic Technology
- Testing and Informationization Business
- New Energy Informationization Business
- T-box (Wireless) Solutions
- Framework of Inbox Solution
- Inbox Interface Graph
- inBOX Hardware Functions
- Operation of Jiangsu CAS-TIANAN Smart Science & Technology, 2013-2015H2
- Structure of Revenue from Key Clients of Jiangsu CAS-TIANAN Smart Science & Technology, 2015H1


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