

Global Mobile Application Processor Industry Report, 2008-2009

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Abstracts

The so-called mobile application processor is centered on a variety of particular applications such as Algorithm, graphic processing, 3D formation, MPEG-4/H.264 decoding and full-function online surfing; and is the application processor focus on mobile products. The mobile application processor contains a Modem of mobile communications, and can play as a kernel or an auxiliary role in its applied products. By application fields, mobile application processor can be classified into five categories as following:

The application processor stems from instant innovation and development of mobile phone applications. Application processor rests its biggest merit with its absolute independence from mobile phone communication platform, being flexibly and conveniently with the shorter design flow and maximum utilization of own experiences and IP. The emergence of camera mobile phone created a group of application processor vendors focus on camera back-end processing, then baseband vendors integrated the IPEG decoding function for camera back-up 1-2 years later, thus resulted the sharp revenue drop and shipment decline of those application processor vendors in the year of 2006.

The application processor of smart phone can be divided into two types, one is the IC highly integrated with Modem, taking Qualcomm's SNAPDRAGON, Freescale's MXC300-30 and Marvell's PXA930 for instance; another is the single algorithm-based IC without Modem, represented by Texas Instruments and Samsung. In opposition to the latter type, the former type featured as high degree of fulfillment and simple design but not quite well in algorithms and flexibility. Any communication protocol in 3G field cannot avoid Qualcomm, but Qualcomm also means a high patent fee. Therefore, the both types have a reason of coexistence.

Portable navigators are under great influence of smart phones. To add much functions on portable navigators seem superabundance, in this sense, application processor has no market, but the situation is different for an in-car navigator due to it will alternatively become the in-car information system which can play sundry stream media and DVD, or become the in-car computer. The in-car navigator is mainly produced by Japanese vendors; therefore, Renesas almost monopolizes the market, and its latest product was SH7775.

MID is defined both in a narrow sense and in a broad sense. As usual, the insiders prefer the definition in the narrow sense, so do this report. MID refers to the mobile network equipment by size between netbook and smartphone. MID has superior portability to netbook and bigger screen size than smart phone, and it seems to have a considerable market prospect. However, the screen size of smart phone is becoming bigger with an average size of 3.2 inches, and the biggest is over 4 inches. MID is of single functionality and has neither the function of traditional mobile phone nor the capability to run the simple office system as Netbook. It also short of full sized keypads, its portability also far inferior to that of mobile phone; The vital defect of MID lies in the price due to its small sales volume. As a whole, MID market has a dim prospect, however, considering MID can be the upgrade of PMP, it will enjoy some market potentials.

Netbook is the highlight of electronic products, and also is the battle field between ARM and Intel. OMAP3640, the masterpiece of Texas Instruments, enjoy the overwhelming advantage regarding cost, volume and power consumption, while Intel enjoys the advantages of performance, the operation of complicated software, and industrial support.

Contents

1. OVERVIEW OF MOBILE APPLICATION PROCESSOR

- 1.1 Definition
- 1.2 Non-smartphones Application Processor
- 1.3 Navigator Application Processor
- 1.4 MID Market Prospect

2. GLOBAL MOBILE PHONE MARKET

- 2.1 Overview
- 2.2 Market Developments
 - 2.2.1 Forthcoming Era of Mobile Internet
 - 2.2.2 Large-scale Application of HSPA

3. CHINA MOBILE PHONE MARKET

- 3.1 Overview
- 3.2 Mobile Phone Exports
- 3.3 Smartphone Market

4. CORE HARDWARE AND SOFTWARE OF SMARTPHONE

- 4.1 Development of Smartphone Processor
- 4.2 Status Quo of Smartphone Processor
- 4.3 Symbian
- 4.4 Linux and Windows Mobile
- 4.5 Summary of Operating Systems

5. NETBOOK

- 5.1 Definition of Netbook
- 5.2 Drivers for Netbook
- 5.3 Development Trend: Embedded Data Card
- 5.4 Hardware Configuration of Netbook
- 5.5 Global Netbook Market Scale
- 5.6 China's Netbook Market
- 5.7 Netbook Competition between ARM and Intel

6. APPLICATION PROCESSOR VENDORS

- 6.1 Texas Instruments
- 6.2 Renesas
- 6.3 Toshiba
- 6.4 AMD/ATI
- 6.5 Nvidia
- 6.6 Mtekvision
- 6.7 CoreLogic
- 6.8 STMicroelectronics
- 6.9 Freescale
- 6.10 Alpha Imaging Technology (AIT)
- 6.11 Marvell
- 6.12 Broadcom
- 6.13 Zoran
- 6.14 RMI
- 6.15 Actions Semiconductor Co., Ltd
- 6.16 Telechips

Selected Charts

SELECTED CHARTS

Application Processors Market Scale by Category, 2008-2012E

Market Share Distribution of Non-Smartphone Application Processor Vendors in 2008

Block Diagram of SH7775

Global Mobile Phone Shipment and the Overall Proportion of Smart Phones,
2007-2012E

Global Quarterly Mobile Phone Shipment and Growth Rates, 2007-2008

Global Quarterly Shipment of Mobile Phones by Region, 2007-2008

Global Quarterly Shipment of Mobile Phones by Technology, 2007-2008

Global Market Share Distribution of Key Mobile Phone Vendors in 2008

Global Market Share Distribution of Key Smartphone Vendors, Q1 2007-Q3 2008

Global Market Shares Distribution of Key Smartphone Vendors, 2008

Mobile Phone Development Trends, 1995-2012E

Development Trends of Mobile Phone Communication Protocol Stack, 2008-2013E

UMTS-HSPA Network Distribution in Latin America

Mobile Phone Sales in China and the Overall Proportion of Smartphones, 2004-2012E

Market Share Distribution of Key Mobile Phone Vendors in China, 2008

Mobile Phone Output in China, 2004-2012E

Chia's Mobile Phone Export Volume, 1999-2008

China's Export Value of Mobile Phones, 2002-2008

Regional Distribution of Mobile Phone Exports in China, 2008

Market Share Distribution of Key Smartphone Vendors in China, 2008

Types of Netbook Embedded Data Card, 2007-2012E

Basic Constitution of Intel Netbook

Cost Structure of Netbook

Global Netbook Shipment, 2006-2009E (Most Conservative)

Global Netbook Shipment, 2007-2012E (Conservative)

Global Netbook Shipment, 2007-2011E

Global Netbook Shipment, 2008-2013E (Most Optimistic)

Layout of Netbook Applications, 2007-2012E

China's Netbook Shipment, 2008-2012E

Global Market Share Distribution of Key Netbook Vendors, 2008

Software System Structure of OMAP Netbook

PCB Comparison between Intel ATOM Processor and OMAP3 Processor

Comparison between OMAP3640 and Intel ATOM

OMAP Roadmap of Texas Instruments

Brief Introduction to OMAP 4 Series
Internal Framework of OMAP3430/3630
Internal Framework of OMAP35XX-Series Processor
Renesas' Revenues and Operating Profits, FY2004-FY2009E
Revenue Breakdown of Renesas by Product, FY2007
SH-Mobile's Shipment, 2002-2009E
SH-Mobile's Roadmap
SH-Mobile's G-Series Roadmap
Die Microstructure of SH-Mobile G2 and G3
Block Diagram of SH-Mobile G3
Structure of SH-Mobile Platform
Hardware Structure of SH-Mobile Platform
Middleware Roadmap of SH-Mobile Platform
Video Middleware Roadmap of SH-Mobile Platform
Audio Middleware Roadmap of SH-Mobile Platform
Samples of WMA Application Middleware
Samples of DTV Middleware Structure
Block Diagram of SH-Mobile L3V2
Block Diagram of SH-Mobile UL
Block Diagram of SH-Mobile 3 (SH73180)
Block Diagram of SH-Mobile 3A (SH73380)
Block Diagram of SH7722 (SH-MobileR)
Toshiba's Revenues from Its Semiconductor Operations, FY2001-FY2010E
Toshiba's Revenue by Product, FY2005-FY2009E
Toshiba's Investments by Sector, FY2003-FY2009E
Roadmap of Toshiba Mobile Phone Application Processor
Core Structure of Toshiba Mobile Phone Application Processor
Block Diagram of Toshiba Mobile Phone Application Processor
Video Flows of Toshiba Mobile Phone Application Processor
Block Diagram of Nvidia Mobile Phone GPU
Block Diagram of TEGRA
Organization Structure of Mtekvision
Staff Configuration of Mtekvision
Operation Flows of Mtekvision
Global Presence of Mtekvision
Sales and Product Structure of Mtekvision, 1999-2008
Cumulated Shipment of Mtekvision's Sundry Product Models, as of Q2 2007
Client Structure of Mtekvision, Q1-Q4, 2008
Product Structure of Mtekvision, Q1-Q4, 2008

Client Structure of Mtekvision, Q1-Q4, 2009E
Product Structure of Mtekvision, Q1-Q4, 2009E
Block Diagram of MV8720
Block Diagram of MV8750
Revenues and Gross Profit Margin of CoreLogic, 2003-2008
Revenues of CoreLogic by Product, 2003-2008
Product Roadmap of CoreLogic
SWOT Analysis of CoreLogic
Block Diagram of CL6100
Block Diagram of CL9000
Departmental Revenues of STMicroelectronics, Q1 2005-Q4 2007
Revenue Structure of STMicroelectronics, 2008
Revenue of STMicroelectronics, 2005-2008
Revenue Breakdown of STMicroelectronics by Region in 2008
Organization Structure of STMicroelectronics
STMicroelectronics' Revenue from Wireless Sector, 2003-2008
NOMADIK Product Roadmap of STMicroelectronics
Block Diagram of STN8815
Features of STN8815
Typical Applications of STN8815
Revenues of Freescale by Product, 2006-2008
Roadmap of IMX-Series Application Processor
Product Roadmap of Sigmtel after being Purchased
Block Diagram of STMP3710
Block Diagram of STMP3770
Block Diagram of STMP3731
Block Diagram of STMP3738
Block Diagram of STMP3750
Block Diagram of IMX31
Video Flow of IMX31
IMX31 Application Cases
Listing of IMX35X Series Products
Block Diagram of IMX37
Product Roadmap of AIT
Revenues and Operating Profit Margin of Marvell, FY2001-2009E
Typical Application of Marvell PXA3XX-Series Platform
Block Diagram of PXA320
Revenue of Broadcom by Product, Q1 2006-Q4 2008
Block Diagram of BCM2722

Revenue of Zoran, 2001-2008
Quarterly Revenue of Zoran, 2002-2008
Zoran's Revenue by Region, Q3 2008 & Q4 2008
Block Diagram of APPROACH 5
Block Diagram of APPROACH 7
Typical Applications of AU1200
Block Diagram of AU1200
Block Diagram of AU1300-Series Product
Revenue and Gross Profit Margin of Actions Semiconductor, 2003-2008
Industry Chain Flow of Actions Semiconductor
Product Roadmap of Actions Semiconductor
Global Presence of Telechips
Revenue and Product Layout of Telechips, 2001-2007
Revenue and Operating Profit Margin of Telechips, 2006-2010E
Telechips' Products by Application, 2006-2009E
Telechips' Main Clients in Audio Field and List of Those Adopting Telechips' Products
Telechips' Main Clients in Car/Household Acoustics Field and List of Those Adopting Telechips' Products
Product Roadmap of Telechips
Overview of Telechips' Latest Products
Block Diagram of TCC7901
BSP Development Status of TCC7901
TCC7901 Audio Flows and CODEC Developments
TCC7901 Video Flows and CODEC Developments
TCC7901 Digital TV Developmentss
Global Top 13 Mobile Phone Vendors by Shipment in 2008
Ranking of Top 25 Mobile Phone Vendors by Output in China, 2008
Top 23 Destinations of China's Mobile Phone Export in 2008
CPU and Operating Systems of 130 Smart Phone Models Launched During 2008 to March 2009
The Mobile Phone Models Adopting Symbian and Its Versions
Global Shipment of Key Netbook Vendors, Q3 2008
Parameters of Intel ATOM Processor Full-Line Products
Overall Performance Comparision Between Intel N270 and Intel N280
Parameters of TI's Latest OMAP36 Series
List of Mobile Phones Adopting SH-Mobile Processor
List of the Products Adopting SH-Mobile
Features Comparisin Among SH-Mobile G1, G2 and G3
List of Mobile Phones Adopting Toshiba Application Processors

Overview of ATI Mobile Phone Multimudia Chips
List of Mobiel Phones Adopting ATI's Mobile Phone GPU
List of Mobile Phones Adopting Nvidia's Mobile Phone GPU
Comparison of Nvidia's Mobile Phone GPU Features
Overview of CSP-series Products
Overview of MVP-series Products
Overivew of MMP-series Products
List of Mobile Phones Adopting STN8815
Freescale's Revenues from Its Mobile Phone Dept., Q1 2006-Q4 2008
Applications Processor List of Freescale
Comparison of AIT' Product Features
Overview of AIT'S MMP Product Lines
Overview of AIT'S ISP Product Lines
Overview of AIT's MAP Product Lines
List of Mobile Phones Adopting AIT's Products
Retrospect of Broadcom's Acquisitions
Product List of RMI ALCHEMY
Product List of Telechips

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