Media Data 2006~2007



"Interface" -- focused on embedded systems. We offer the practical technology and useful information to the frontline engineers.

CQ Publishing Co.,Ltd.

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Professional Magazine on System Technology

We will bring you hot information on embedded systems and computer technologies



Editor-in-Chief, Interface

Shunichi Nakayama

Interface is the professional magazine for embedded systems engineers. Our readers are the young to mainstay engineers and engineering managers in the embedded field.

In the word "interface", there are many meanings varying from the interface of CPU and peripherals, the interface of hardware and software, the interface of electronics and computer technology. We will explain thoroughly on design methods of embedded systems, especially microcomputer, computer system and development environment.

Interface

2006 June



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マイコン・システムの基礎とプログラミング技術を学ぼう SH-2基板ではじめる 組み込みマイコン入門

まず付録基板に部品をはんだ付けしよう

68 第1章 SH-2基板で始める組み込みマイクロプロセッサ入門 音田 幸作 (Kousaku Yoshida)

76 第2章 付録基板に搭載されているCPUの位置付けを知る SupperHファミリとSH-2のボジション

 CPUの構成を理解してハードウェアをマスタしよう

 SH7144F/7145Fのアーキテクチャと内蔵周辺回路

回路設計のトラブルに巻き込まれないための

92 第4章 マイクロプロセッサ周辺回路の設計 ――電源,クロック,リセット回路

吉田 幸作 (Kousaku Yoshida) SH-2基板のソフトウェアを開発するための準備

104 第5章 開発ツールのインストールとその使い方 吉田 幸作/岩田 正雄/森川 聡久/内海 裕憲 (Kousaku Yoshida/Masao Iwata/Akihisa Morikawa/Hironori Utsumi)

121第6章入力装置からのデータを受けて出力装置を動かすしくみ第日 幸作 (Kousaku Yoshida)SH7144Fの入出力インターフェースとGPIOプログラミング

RS-232-Cポートを使ってシリアル通信を行おう **128** 第7章 シリアル通信インターフェースのプログラミング
吉田 幸作 (Kousaku Yoshida)

8チャネルのデータ・ロガーを作ってみよう **135** 第8章 A-D変換回路のプログラミング

モータ制御に必要なPWM制御信号を取り出せる **141** 第9章 豊富な機能と性能を備えたカウンタとタイマ機能

緊急度を判断し、処理の後始末も行う 第10章 割り込み処理のプログラミング

割り込み処理のプログラミング 吉田 幸作 (Kousaku Yoshida)



Cover Story

Targeting the embedded systems design, more than half of the entire editorial pages are used to explain on the hardware and software necessary to build those systems. In order to enhance the readers' understanding, articles offer many diagrams, charts, photos and lists. The contents are precise and direct to make applications easy and simple. To make the logical explanations as simple as possible, we select simple and easy-to-obtain devices and software.

5

Technologies on the Topics

In this section, new technological concepts, new devices and new software are featured. We step ahead to explain thoroughly on technologies necessary for embedded systems engineers.



Columns

What engineers need is not just technical knowledge. For example, in order to research and develop embedded systems, one needs to understand the peripheral demands and problems. Therefore, to be able to acquire the views of such engineers, various columns by many noted, frontline engineers and researchers are offered.

Series Report

We select important technologies for de-signing embedded system and explain them from the basics. We devote the equivalent volume of the cover story for this section to give complete ex-planations. Also, we deliver the mes-sages of the active design engineers.

Supplement

Booklet, CD-ROM, small CPU Board, etc. are the appendix supplement in several issues a year.

Media Outline

Established: January 1974 Issued: Monthly (every 25th) Format: irregular A4 size (280mm x 210mm)

Binding: Lineless binding

Sales: Bookstores and subscription

Price: ¥980 (tax included)

Important Topics

海外・国内イベント/セミナ情報 読者のひろば/読者プレゼント

225

次号予告

Interface June 2006

ith the growth of the PC market, Embedded Technology is spotlighted that supports post PC market.

Special scaled-down computer of the microcomputer that doesn't have the shape of PC, so-called embedded application equipments increases rapidly.

HEW (SH-2)

Microcontroller SH7144

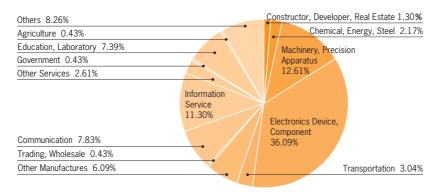
Interface targets the engineer in embedded technology field.

Out three main themes are, "Microcomputer, Memory, Middleware", "Computer System", "Development Environment & Assistance". From the technology to the development technique, from the component produce/procurement to system construction, from the real case in developing to the development methodology, all integrant needed for developing the embedded system are here.

Readers Profile

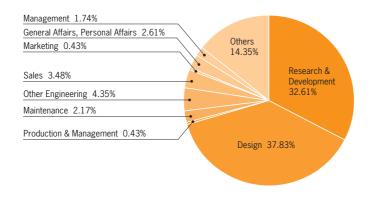
Interface is Read by Embedded System Engineers.

Industry



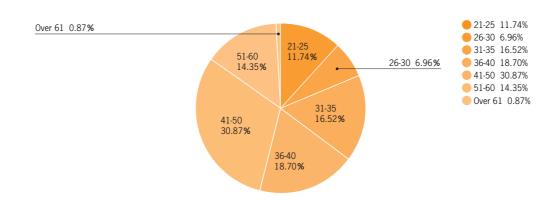
- Constructor, Developer, Real Estate 1.30%
- Chemical, Energy, Steel 2.17%
- Machinery, Precision Apparatus 12.61%
- Electronics Device, Component 36.09%
- Transportation 3.04%
- Other Manufactures 6.09%
- Trading, Wholesale 0.43%
- Communication 7.83%
 Information Service 11.30%
- Other Services 2.61%
- Oovernment 0.43%
- Education, Laboratory 7.39%
- Agriculture 0.43%
- Others 8.26%

Occupation



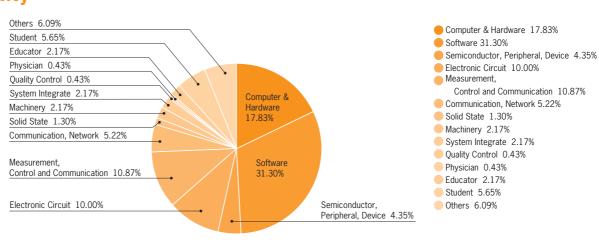
- Research & Development 32.61%
- Design 37.83%
- Production & Management 0.43%
- Maintenance 2.17%
- Other Engineering 4.35%
- Sales 3.48%
- Marketing 0.43%
- General Affairs, Personal Affairs 2.61%
- Management 1.74%
- Others 14.35%

Age

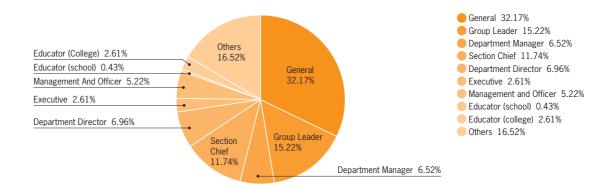


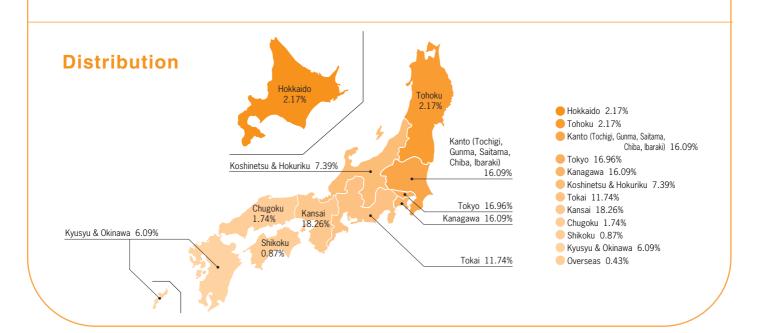
Readers Profile

Specialty



Position





Media Data

Rate and Size

(Rates are shown in US\$)

	Standard Size		Bleed Size	
Space	Rate	Size (Height x Width mm)	Rate	Size (Height x Width mm)
Inside Front Cover Spread	6,917	255 x 390	7,608	280 x 420
Back Cover	4,083	255 x 180	4,492	280 x 210
Inside Front Cover	3,667	255 x 180	4,033	280 x 210
Inside Back Cover	3,250	255 x 180	3,575	280 x 210
4-Color 1 Page	3,000	255 x 180	3,300	280 x 210
2-Color 1 Page	2,083	255 x 180	2,292	280 x 210
B&W 1 Page	1,500	255 x 180	_	_
B&W 1/2 Page	1,000	125 x 180	_	_
Table-of-Contents Upper Half	2,000	100 x 180	_	_

Schedule

AD close: 28 days prior to the date of issue

Data Material Due: 23 days prior to the date of issue Film Material Due: 17 days prior to the date of issue

**Sat.,Sun., Holiday are excluded
**Use the latest schedule for the fixed date

Data Requirements

■ Provide 3 items as below

- 1. Data
- 2. Color Proof
- 3. Data Spec Sheet

■ Data Specifications

- 1. Mac format files
- 2. The images will be saved in the same directory as the output file.
- 3. Images: Uncompressed EPS file.
- 4. Color: CMYK or B/W
- 5. Color trapping.
- 6. Black to overprint
- 7. Line : over 0.3 points $\,$ Trapping letter : over 8.5 points
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- Bleed size ad : Add 3mm bleed to all outer edges of document.
- 10. Full-scale data
- 11. Prepare a duplicate.
- 12. Provide data after virus check
- 13. Contact your local sales representative for material submission instructions
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Media Data

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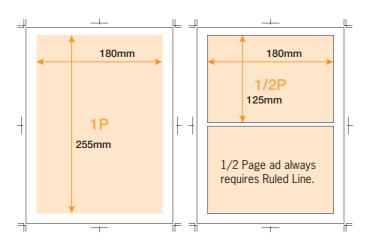
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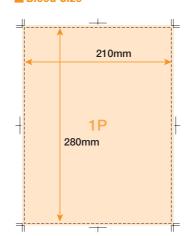
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- Classified info in the general ad : Confirm your local representative beforehand.
- Other rules conform to regulations of The Japan Magazine Advertising Association

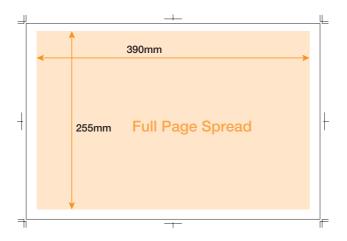
■ Standard Size



■ Bleed Size



Keep live matter 10mm away from edges of final trim



■ Table-of-Contents Upper Half

