



# CONTEC PRODUCTS CATALOG

IT&IT PRODUCTS  
Industrial Technology/Information Technology








# 9



















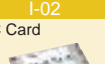

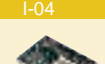

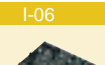














**CONTEC**  
[www.contec.com](http://www.contec.com)

# 1 Industrial PC Products

|                     |                                 |                                                                                                      |                                                                                                                         |                                                                                                                  |                                                                                                         |
|---------------------|---------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Box-PCs | A-01<br>Lineup                  | A-03<br>Box-PCs<br> | <b>B</b><br>Panel-PC                                                                                                    | B-01<br>Lineup                                                                                                   | B-03<br>Panel-PC<br> |
|                     | <b>C</b><br>Flat Panel Displays | C-01<br>Lineup                                                                                       |                                                                                                                         | C-03<br>Flat Panel Displays<br> | <b>D</b><br>Silicon Disk Drive                                                                          |
| <b>E</b><br>Options |                                 | E-01<br>Options<br> |                                                                                                                         | <b>F</b><br>Box PCs & Panel PCs with Windows CE                                                                  |                                                                                                         |
|                     |                                 |                                                                                                      | F-07<br>Windows CE.NET / 3.0 SH3<br> |                                                                                                                  |                                                                                                         |

# 2 Measurement and Control Products

Industrial Automation Products


|                                          |                              |                                                                                                    |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
|------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>G</b><br>Analog I/O                   | G-01<br>Lineup               | Multi-function F series                                                                            | G-06<br>PCI<br>               | G-06<br>PC Card<br>            |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
|                                          | G-03<br>Measurement Products | Low-cost Multi-function L series                                                                   | G-08<br>PCI<br>               | G-08<br>PC Card<br>            |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
|                                          |                              | Intelligent E series                                                                               | G-10<br>PCI<br>              |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
|                                          |                              | Standard type                                                                                      | G-11<br>PCI<br>             | G-14<br>PC Card<br>          | G-14<br>USB<br>     |                                                                                                                  |                                                                                                      | G-16<br>ISA<br> |
|                                          |                              |                                                                                                    |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
| <b>H</b><br>Digital I/O                  | H-01<br>Lineup               | H-03<br>PCI<br> | H-11<br>Low Profile PCI<br> | H-12<br>PC Card<br>          | H-14<br>USB<br>     | H-16<br>Compact PCI<br>     | H-17<br>ISA<br> |                                                                                                      |
|                                          |                              |                                                                                                    |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
| <b>I</b><br>Counters & Motor Controllers | I-01<br>Lineup               | Counters                                                                                           | I-02<br>PCI<br>             | I-02<br>PC Card<br>          | I-04<br>USB<br>     |                                                                                                                  | I-04<br>ISA<br> |                                                                                                      |
|                                          | I-05<br>Lineup               | Motor Controllers                                                                                  | I-06<br>PCI<br>             |                                                                                                                 |                                                                                                          |                                                                                                                  | I-06<br>ISA<br> |                                                                                                      |
| <b>J</b><br>Communication                | J-01<br>Lineup               | J-03<br>PCI<br> | J-05<br>Low Profile PCI<br> | J-06<br>PC Card<br>          | J-08<br>USB<br>     | J-09<br>Media Converter<br> | J-10<br>ISA<br> |                                                                                                      |
|                                          |                              |                                                                                                    |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |
| <b>K</b><br>GPIO                         | K-01<br>Lineup               | High-Performance F series                                                                          | K-03<br>PCI<br>             | K-03<br>Low Profile PCI<br> | K-04<br>PC Card<br> | K-04<br>Compact PCI<br>     |                                                                                                      |                                                                                                      |
|                                          |                              | Standard type                                                                                      | K-05<br>PCI<br>             | K-06<br>PC Card<br>          |                                                                                                          | K-06<br>Media Converter<br> | K-06<br>ISA<br> |                                                                                                      |
|                                          |                              |                                                                                                    |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                                  |                                                                                                      |                                                                                                      |

## 2 Measurement and Control Products


Industrial Automation Products

### L Remote I/O

**L-01**  
USB-based Remote I/O




**L-03**  
Ethernet-based Remote I/O



### M Bus Expansion System

**O-01**  
Lineup


**M-04**  
Bus Extension Type Expansion Adapter



**M-05**  
Bus Extension Type Expansion Chassis




**M-08**  
StarFabric-compliant Type Expansion Adapter



**M-09**  
StarFabric-compliant Type Expansion Chassis



**M-11**  
Bus Expansion Adapter & Converter Adapter



### N Software

**N-01**  
Driver Software for LabVIEW

**N-02**  
API Function Library

### O Accessories & Cables

**O-01**  
Analog I/O

**O-07**  
Digital I/O

**O-13**  
Counter & Motor Controller

**O-17**  
Communication

## 3 Distributed Monitor & Control Network: F&eIT

### P Distributed Monitor & Control Network: F&eIT


**P-01**  
F&eIT series



## 4 Multi-Programmable Display

### Q Multi-Programmable Display

**Q-01**  
ACTIVE TOUCH series



## 5 Solution & Service Products

### R Remote Monitoring Solution

**R-01**  
F&e Web Server Pro

**R-01**  
Voice Howler

**R-01**  
Mail Howler

**R-01**  
Packet Caster

**R-02**  
Eco Station 2

**R-02**  
Field IP Network System

### S Service & Products

**S-01**  
"Solution-ePC" for Industrial Use

news box

CONTEC SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters & Motor Controls

Communication

GPIO

Remote I/O

Bus Expansion System

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

03 news box

05 CONTEC SOLUTION

06 Quality Assurance System

07 The measure for environment

08

09 Company Profile

09 Business Lineup

10 World Class Service

[Back Cover]

# news box

The latest product information!  
Additional details in appropriate product sections.

## 6 New USB2.0-Compliant USB Modules Released!

### Analog I/O


**High-Resolution, Isolated Analog Input ADI16-4(USB)** G-15 →

Analog Input 4ch Isolated Windows Driver

- 16 bit resolution
- 4 differential inputs
- 256k FIFO memory
- Analog trigger function
- Supports both voltage / current inputs

**Includes**

- USB cable (1.8m)
- AC adapter (1.4m cable)



Optional 4-channel expansion module available (3 units max)


**High-Resolution, Isolated Analog Output DAI16-4(USB)** G-15 →

Analog Output 4ch Isolated Windows Driver

- 16 bit resolution
- 4 outputs
- 256k FIFO memory
- Analog trigger function
- Supports both voltage / current outputs

**Includes**

- USB cable (1.8m)
- AC adapter (1.4m cable)



Optional 4-channel expansion module available (3 units max)

### Thermo-sensors


**Pt100 Thermo-sensor Input Module PTI-4(USB)** G-14 →

Analog Input 4ch Bus Isolated Windows Driver

- IEC/JIS-compliant platinum resistance temperature sensor (Pt100, JPT100)
- Supports acquisition of resistance and temperature, averaging and alarm output
- Detects accidental wire disconnection.

**Includes**

- USB cable (1.8m)
- AC adapter (1.4m cable)



Optional 4-channel expansion module available (5 units max)

### Digital I/O

**Isolated Digital Input DI-32(USB)** H-14 →

Input 32 Isolated Windows Driver



- Input trigger monitoring
- 12-24 VDC photo-coupler isolated input
- 12-48VDC photo-coupler Isolated open collector output

**Isolated Digital Output DO-32(USB)** H-14 →

Output 32 Isolated Windows Driver




**Includes**

- USB cable (1.8m)

*NOTE: When using expansion module, please use AD adapter POA-AD22 (sold separately).*

**Isolated Digital I/O DIO-16/16(USB)** H-14 →

Input 16 Input 16 Isolated Windows Driver

DIO-16/16(USB)

Optional 32-channel expansion module available (3 units max)


## Two New High-Speed - High-Performance GPIB Boards!

Low-price LPCI- and CardBus-compliant models have been added to Contec's F Series of GPIB Communication boards.

**LPCI GPIB [IEEE488.2] GP-IB(LPCI)FL** K-03 →

1.5M byte/sec Windows Driver Linux Driver

- IEEE-488.2 -compliant
- 1.5Mbyte/sec transmission (max)
- Supports bus master transfer
- 2Kbyte FIFO memory (transmitting and receiving)



**Cardbus GPIB [IEEE488.2] GP-IB(CB)FL** K-04 →

1.5M byte/sec Windows Driver Linux Driver

- IEEE-488.2 -compliant
- 1.5Mbyte/sec transmission (max)
- Supports bus master transfer
- 2Kbyte FIFO memory (transmitting and receiving)





## CONTEC now offers analog I/O boards certified and recommended for use with Matlab

### ML-DAQ - MATLAB-Compliant Data Acquisition Drivers

Contec has released a driver library allowing some of our analog I/O products to be used with Data Acquisition Toolbox, the signal I/O module of MATLAB. (MATLAB is a technical computer language used for technical analysis developed by The MathWorks in Massachusetts)

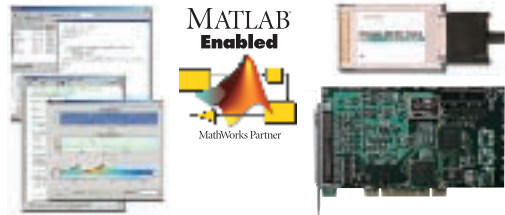
All the functions provided by Contec's analog modules can be used from the unified command (function) and interface, providing a high affinity for MATLAB users. Matlab supports high-level signal measurement through various parameter settings such as simple signal I/O, sampling clock and trigger.

#### Supported boards / PC cards

| PCI              | Low Profile PCI/PCI                                 | PC Card                           |
|------------------|-----------------------------------------------------|-----------------------------------|
| ADA16-32/2(PCI)F | ADA16-8/2(LPCI)L<br>AD16-16(LPCI)L<br>DA16-8(LPCI)L | ADA16-32/2(CB)F<br>ADA16-8/2(CB)L |

\*Boards supported by ML-DAQ Ver.1.00 (1st release). Number of supported products will increase with future versions.

### Free Driver Download



To learn more about Contec's MATLAB-compliant data acquisition library ML-DAQ and for free download — <http://www.contec.com/mldaq/>



## 12 Lead-free boards to be released soon!

Contec is working towards making all products that are released after October 2005, Lead [Pb] free. In addition to 6 CardBus products, 12 low-profile PCI/PCI-compliant boards are already lead-free. For the release schedule and detailed information of additional lead-free products, please visit our website.

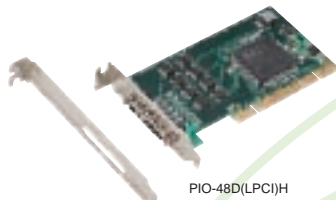
### Low Profile PCI

#### Bi-Directional TTL Digital I/O PIO-48D(LPCI)H

Windows Driver  
Linux Driver

- i8225 Mode 0 - compliant
- Supports 48-point two-way digital input/output
- TTL-level input/output enables high-speed response

Bi-direct 48 Non-isolated Digital Filter

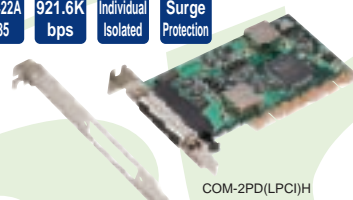


#### High Speed Isolated RS-422A/485 COM-1PD(LPCI)H 1ch COM-2PD(LPCI)H 2ch

Windows Driver  
Linux Driver

- RS-422A/RS485-compatible
- Supports high speed communication (up to 921,600bps)
- Up to 16 boards can be added set to COM1~256

RS-422A/485 921.6K bps Individual Isolated Surge Protection



#### 32-Bit High Speed 4ch Up/Down Counter CNT32-4MT(LPCI)

Windows Driver

- Supports 2- and single-phase signal input
- Bus master function enables high-speed data transfer
- CTP-40 enables board to be used for differential input. CNT-68M/50 - connection cable also required. [both sold separately]

Counter 4 TTL Input Digital Filter Bus Master



### PCI

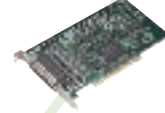
#### Opto-Isolated Digital Input PI-128L(PCI)H

Input 128 Isolated Digital Filter



#### Opto-Isolated Digital Output PO-128L(PCI)H

Input 128 Isolated Surge & Overcurrent Protection



#### Opto-Isolated Digital I/O PIO-64/64L(PCI)H

Input 64 Output 64 Isolated Digital Filter Surge & Overcurrent Protection



#### Opto-Isolated Digital I/O with On-Board 12V Power Supply PIO-32/32B(PCI)V

Input 32 Output 32 Isolated Power On board Digital Filter



#### TTL-Level Digital I/O PIO-32/32T(PCI)H

Input 32 Output 32 Non-isolated Digital Filter



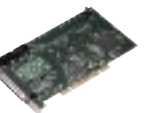
#### Reed Relay Output RRY-16C(PCI)H

Output 16 Isolated High Voltage Non polarity



#### 24-Bit 4 channel Up/Down Counter CNT24-4(PCI)H

Counter 4ch Isolated TTL Digital Filter



#### 24-Bit 4 channel Differential Up/Down Counter CNT24-4D(PCI)H

Counter 4ch Differential Input TTL Digital Filter Surge Protection





## QUALITY POLICY

CONTEC takes great pride in meeting and maintaining the best standards of quality in products and services.

CONTEC products are highly dependable and are manufactured with a guarantee of complete customer satisfaction.



### ISO 9001

CONTEC obtained ISO 9001 accreditation in 1995 and gained re-accreditation in 2004.



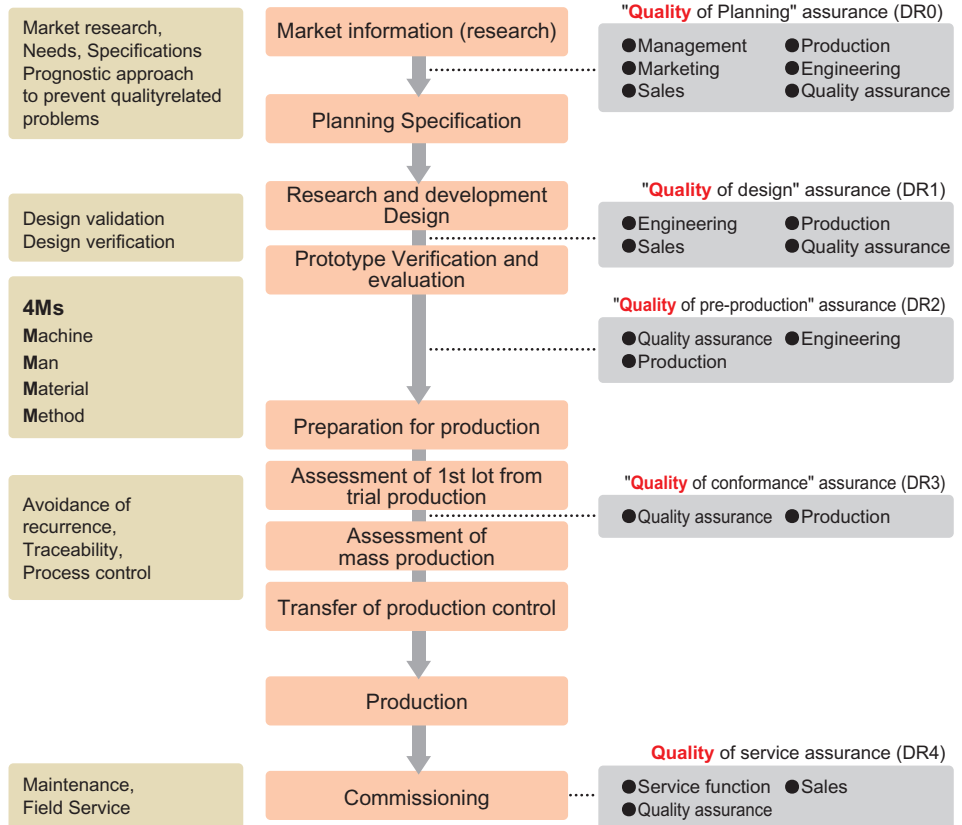
### ISO 14001

CONTEC obtained ISO 14001 certification in 2002.

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### Quality assurance system (DR system) based on ISO 9001

Using all resources and capabilities of our company, we are conducting quality assurance activities according to five processes specified in ISO 9001 shown below.



# CONTEC SOLUTION



## CE Mark

To ensure the safety of its product line, CONTEC is actively engaged in the process of acquiring CE Certification.

**Card Bus**

9-pin D-SUBx2 RS-232C 2ch

Windows Driver Linux Driver

CardBus compatible  
2 Port RS-232C  
COM-2(CB)H

- Functions as a standard COM board when used under Windows XP/2000/Me/98 or Linux
- 128-byte FIFO buffer (both transmission and reception) provided for each channel
- Maximum 2pcs. can be mounted on the same PC (1pc. only for Windows Me, 98SE, 98 and Linux)

### ● CE Marking

For export to European countries, products are required to bear the CE safety marking. This mark indicates that the product satisfies standards set down by the EU Directives, including safety requirements. In light of this, CONTEC is actively engaged in acquiring CE marking for all of its products. The requirements for CE Marking have undergone several minor revisions and are expected to be revised again this year. CONTEC intends to respond flexibly to these and any future changes.

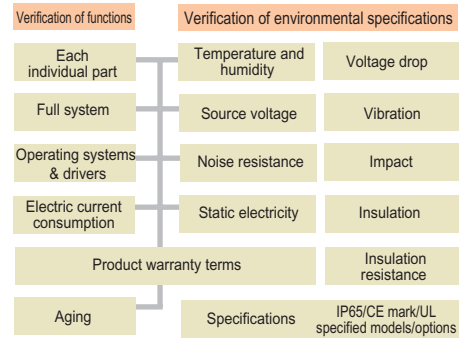
The EU Directives relevant to CONTEC products are:

- EMC Directive : Products which generate electromagnetic wave noise or those that can be affected by external electromagnetic waves
- Low-Voltage Directive: Products operating with 50V to 1000V AC or 75V to 1500V DC.

## Tests and Evaluations

The following functions, environments and specifications are verified during development and production to ensure the quality of "design", "pre-production works" and "production".

### ● Evaluation and test flow chart



## Warranty

All of CONTEC's products are built to exacting specifications under stringent quality-assurance guidelines. All products are covered by warranty.

### ● Terms and Conditions of Warranty

|                                      | DAQ products                                                                                                                                                                                                                                          | IPC products                                                                                    |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Maintenance repair                   | Service will continue for six years after production is discontinued or upgrade will be offered                                                                                                                                                       | Service will continue for two years after production is discontinued or upgrade will be offered |
| Initial failure                      | 3 Months                                                                                                                                                                                                                                              |                                                                                                 |
| Repair free of charge                | 1 ~ 3 years                                                                                                                                                                                                                                           | 1 Year                                                                                          |
| Repair on a charged basis            | Repairs on a user-pay basis will be available once the free-of-charge repair period expires (If repairs are needed due to user mishandling, the product must be serviced on a charged basis even if it still within the free-of-charge repair period) |                                                                                                 |
| When the repair service is available | 3 weeks (Repair / To be replaced with new ones.)                                                                                                                                                                                                      |                                                                                                 |
| Design life                          | 7 years<br>(System specifications will include life cycles of those components with a preset design life)                                                                                                                                             | Components will only be available for length of time given by manufacturers.                    |
| Long-term supply guarantee           | For those products with the long-term supply guarantee, manufacturing will continue for approx. 5 years)<br>(If upward compatible product cannot be supplied due to the unavailability of parts, production may need to be discontinued.)             |                                                                                                 |



## Products that are Lead-Free and RoHS Directive-Compliant

### ● Our Environmental Philosophy

As a global company focusing on computer-based automation solutions, Contec is keenly aware of the importance of pursuing environmental conservation on a global scale. Based on this recognition, we are actively committed to the effective utilization and conservation of natural resources as well as to preventing further deterioration of our global environment.

### ● Environmental Policy

Based on this environmental philosophy, the CONTEC Group has been working to produce products that are released after October 2005, RoHS-compliant in accordance with its relevant acts and guidelines. At the same time, we are also implementing design changes on those products which are already on the market so that they will be both lead-free and RoHS-compliant. Our lead-free products will be stamped with our original "Pb-free" mark. Products carrying this mark are classified as lead-free to JEITA level Phase 2 or above.



- RoHS Directive-compliant products are those that are free from hazardous substances designated by RoHS Directive 2002/95/EC (lead, cadmium, mercury, hexavalent chrome, PBB (polybrominated biphenyl) and PBDE (polybrominated diphenyl ether)). The definition of "free" is based on standards that have been established in keeping with other relevant directives. Those products used for applications not specified by the directive are not included.
- "Pb-free" means that the lead content is 0.1wt% or below.
- "Pb-free level Phase 2" indicates that the substrate mounting surface processing and the solder print / bathing at the substrate mounting stage are manufactured using a lead-free process and that no lead is used on the joint surface of any electronic component to be mounted.

### ● Lead-free and RoHS-compliant Timeline

In April, 2003, Contec began its "Pb-Free Project" to prepare to provide lead-free products starting in 2004.

With the establishment of our lead-free mounting technology, Contec was able to provide its first lead-free products in November, 2004.

To ensure the quality of its lead-free soldering technique, Contec has added a new solder joint test to its normal evaluation testing.

In addition, Contec started its "RoHS Directive-Compliance Project" in April 2004 with the goal of supplying RoHS Directive-compliant products starting in 2005. Contec strives to fulfill its commitment to provide high-quality products that embody a consideration for the global environment.

### ● "Pb-Free Project"

(1) Development of new products (To be released after April, 2005)

Contec plans to make all the products completely lead-free (JEITA level Phase 2 or above).

(2) Existing products (to be made lead-free by June, 2006)  
Contec plans to modify product design, including component substitution, in order to make them completely lead-free (Phase 2 or above). For those products requiring components that can not be produced lead-free, Contec will still be using lead-free solder in order to offer them as "low-Pb" products.

### ● RoHS Directive-Compliance Project

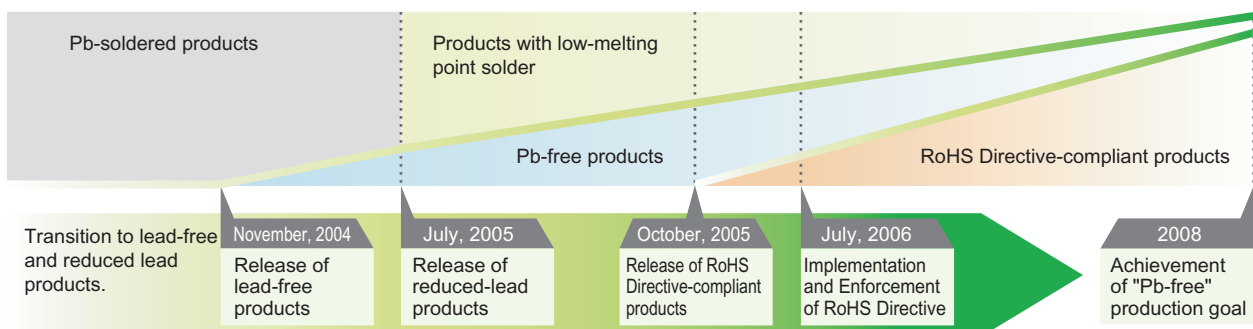
(1) Development of new products (To be released after October, 2005)

Contec plans to make all the products both lead-free and RoHS Directive-compliant.

(2) Existing products

Design modification is planned to make them RoHS directive-compliant.

### Schedule for releasing Pb-free products

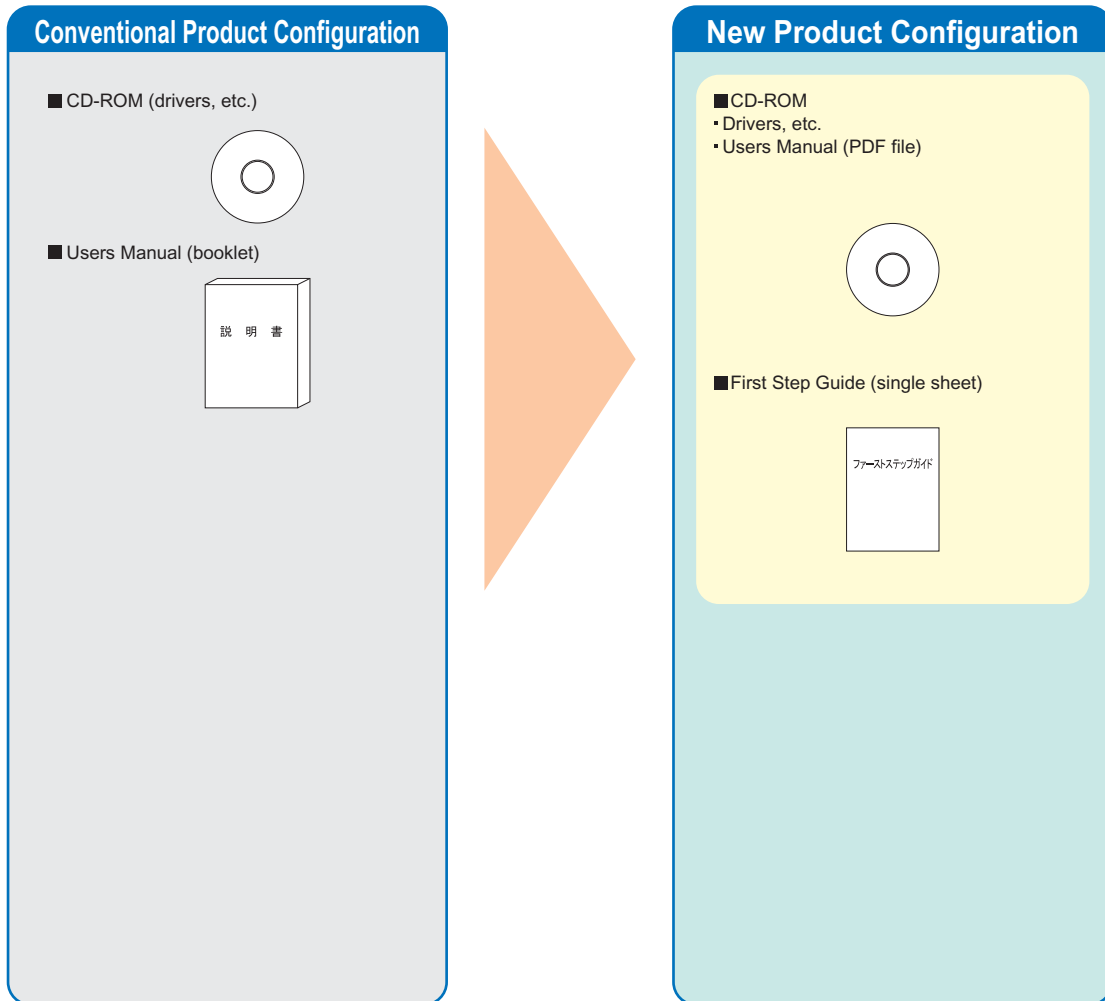




## Users Manual - Electronic Versions

As part of our efforts to effectively utilize the resources and to protect the global environment, we will continue to replace our printed user's manuals with electronic versions (PDF file format) and distribute them on CDs.

Products will ship with a printed "First Step Guide" and an electronic users manual along with all necessary drivers.



\*Printed users manuals will be provided for products with no attached CD-ROM.

# Company Profile

## Development and Exploration — CONTEC Continues to meet Challenges from the Viewpoint of its Customers

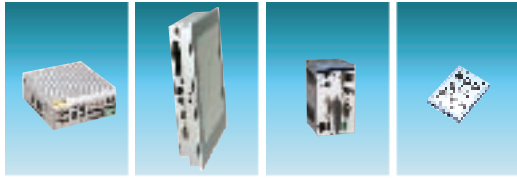
CONTEC is a global corporation, operating primarily in the fields of electronics and information related technologies. Always acting from the customer's viewpoint, we welcome new challenges throughout the wide range of All Automation (AA) applications that utilize personal computers.

CONTEC provide an extensive lineup of value-added devices and components, as well as customer-orientated systems and solutions featuring microcomputers, personal computers and communication.

Device & Component

### Device & Component

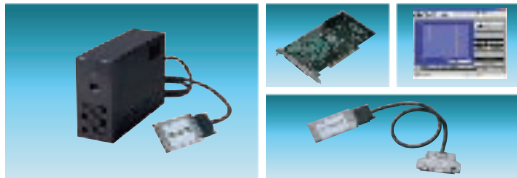
We provide PCs, SBCs, interface boards and network-related products that are needed for All Automation (AA) applications.



#### ■ IPC Products

CONTEC guarantees the long-term supply of industrial PCs that are designed to meet All Automation needs. These industrial computers are produced using environmentally sound manufacturing methods.

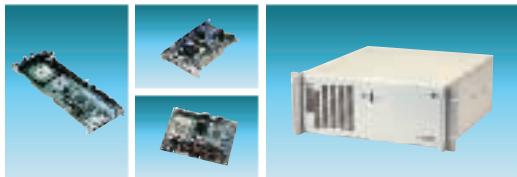
- ▶ IPC (Industrial PC)
  - Panel-PCs · BOX-BOX-PCs
- ▶ Peripheral
  - Flat Panel Displays · Silicon Disk Drives
- ▶ Software
  - Windows XP/2000 · Windows NT · Windows CE



#### ■ Industrial Automation Products

CONTEC offers a wide variety of products that enable the configuration of easy-to-use, low-cost All Automation. These include PC interface boards, wire-saving peripheral equipment and a variety of application software.

- ▶ Interface Boards/Cards
  - PCI / ISA / Compact PCI Boards · PC Cards
- ▶ Wire-saving & Remote I/O Devices
  - Remote I/O Boards/Modules · Field Bus System
- ▶ Software
  - Driver Software · Supported Software



#### ■ SBC & Chassis Products

CONTEC provides a variety of SBCs that serve as a core for both industrial and custom PCs as well as related peripheral equipment. We produce them using environmentally conscious manufacturing methods, with high consideration for quality assurance.

- ▶ SBC (Single Board Computer)
  - PICMG · ISA · PISA · NLX · Compact PCI
- ▶ Peripheral
  - Chassis · Backplane



#### ■ Network Products

With CONTEC's unique, user-friendly design - both hardware and software - these network products deliver quality, low-cost performance.

- ▶ Wireless LAN
  - Access Points · LAN Boards/Cards · Authentication Server Units
- ▶ General-purpose LAN
  - HUBs · Switching HUBs · LAN Boards/Cards
- ▶ Related Software

Solution & Service

### Solution & Service

In an effort to meet the ever-diversifying customer demand in our System and Solution business, we take advantage of our strength in Device and Component products to provide optimized system integration, incorporating both hardware and software.



#### ■ Solution Products

CONTEC provides setup service for PCs and controllers, customized to the customer's request. Our services also include software installation as well as any needed development and ongoing supply of related peripherals.



#### ■ System Integration

With an array of device and component products available, CONTEC can provide custom-configured system integration, featuring measurement, control and All Automation.

- ▶ Automatic Paint System
- ▶ Environment-related System
- ▶ FA Monitoring and Control System
- ▶ Production directions System

### ODM & OEM

We provide support to help customers meet constant, year-round demand.

#### ■ ODM

We produce and supply products and systems that are designed by the customer.

#### ■ OEM

We supply systems and products that have been designed and developed by CONTEC, for resale under the customer's own brand name.

## CONTEC GROUP

World Class Service

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