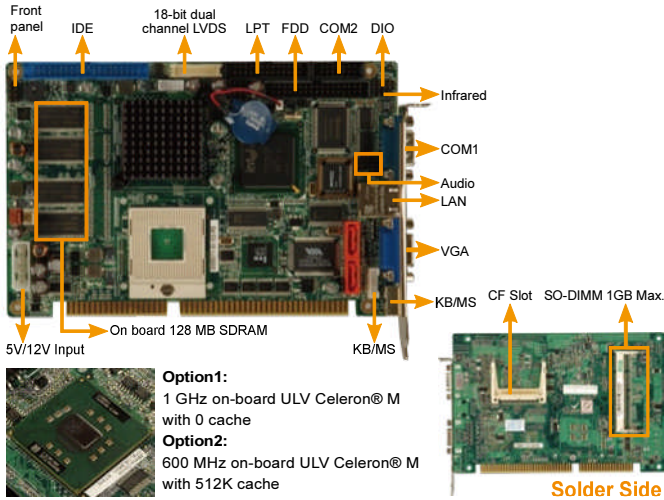
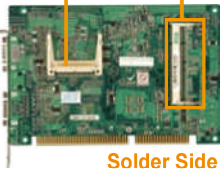


# IOWA-8522

Half-size ISA CPU card supports Intel® Pentium® M or Celeron® M processors with a 400 MHz FSB and comes with LVDS, CRT, dual-display function, LAN, SATA with RAID support and USB 2.0



**Option1:**  
1 GHz on-board ULV Celeron® M with 0 cache  
**Option2:**  
600 MHz on-board ULV Celeron® M with 512K cache



Solder Side

**FSB 400**

**DDR 266**

**Dual Display**

**USB 2.0**

**Fanless**

**One Key Recovery**

## Features

1. Supports Intel® Pentium® M or Celeron® M processors with 400MHz FSB
2. On-board 128MB DDR SDRAM and SO-DIMM DDR support up to 1GB
3. Analog CRT, 18/24-bit dual channel LVDS output and dual display supported
4. One RS-232, one RS-232/422/485 and four USB 2.0
5. Two SATA with RAID 0, 1
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
Socket 479: Intel® Pentium® M or Celeron® M with a 400 MHz FSB  
On-board: 1 GHz zero cache or 600 MHz 512 KB cache Intel® Celeron® M
- ◆ System Chipset  
Intel® 852GM + ICH4
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
128 MB on-board DDR SDRAM  
One 200-pin 1 GB (max.) 200 MHz or 266 MHz DDR SDRAM SO-DIMM supported
- ◆ Ethernet  
Intel® 82562ET 10/100 Ethernet controller
- ◆ I/O Interfaces  
1 x RS-232                      1 x RS-232/422/485  
1 x LPT                         1 x FDD  
1 x IDE                         1 x CF Type II  
4 x USB 2.0 (by header)  
1 x Infrared Interface  
1 x 6-pin wafer on board for KB/MS  
2 x SATA with VIA VT6421A RAID 0, 1 function
- ◆ Digital I/O  
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Audio  
On board pin header supports 5.1 channel output via IEI audio kit
- ◆ Display  
18/24-bit dual-channel LVDS  
Analog CRT
- ◆ Watchdog Timer  
Software programmable support 1~255 sec. system reset
- ◆ Power Supply  
5V/12V, AT/ATX support
- ◆ Power Consumption  
5 V @ 5.29 A, 12 V @ 0.13 A Intel® Pentium® M 2.0G/1GB DDR SDRAM
- ◆ Temperature  
0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity  
5% ~ 95% non-condensation
- ◆ Dimensions  
185 mm x 122 mm
- ◆ Display Interface  
VGA integrated in the VIA MARK 24 bits TTL 18-bit dual-channel LVDS
- ◆ System Chipset  
VIA MARK + VT82C686B
- ◆ BIOS  
Award BIOS
- ◆ System Memory  
On-board 128MB SDRAM  
One 168-pin 512 MB (max.) PC133/100 SDRAM DIMM supported
- ◆ Ethernet  
10/100Mbps Realtek RTL8100C Ethernet chipset
- ◆ I/O Interface  
4 x USB 1.1                      1 x IDE  
1 x FDD                         1 x LPT  
1 x Infrared                    2 x RS-232  
1 x Keyboard and mouse (PS/2)  
1 x 6-pin header for keyboard and mouse  
1 x CF Type II
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output

## Packing List

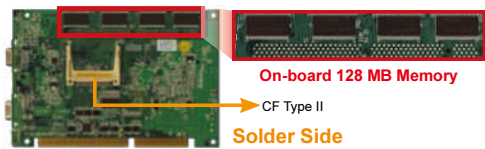
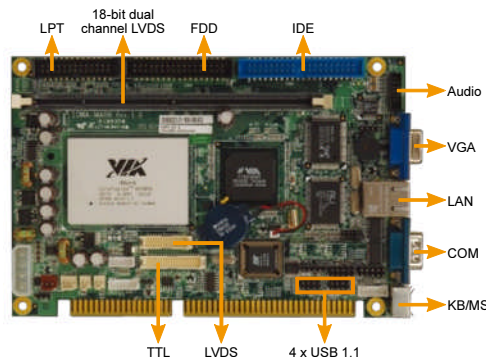
|  |                                  |
|--|----------------------------------|
| 1 x IOWA-8522-R10 single board computer                      |                                  |
| 1 x ATA66 flat cable (P/N: 32200-000052-RS)                  |                                  |
| 1 x RS-232/422/485 cable with bracket (P/N: 19800-000082-RS) |                                  |
| 1 x SATA power cable (P/N: 32102-000100-200-RS )             |                                  |
| 1 x KB/MS Y cable (P/N: 32006-000300-100-RS)                 | 1 x USB cable (P/N: CB-USB02-RS) |
| 2 x SATA cable (P/N: 32000-062800-RS)                        | 1 x Mini jumper pack             |
| 1 x Utility CD   | 1 x QIG                          |

## Ordering Information

| Part No.            | Description  |
|---------------------|--|
| IOWA-8522-R10       | Half Size ISA CPU card with Intel® Pentium® M / Celeron® M at 400 MHz FSB, LVDS/CRT for dual display, LAN, SATA with RAID, USB 2.0 |
| IOWA-8522-1GZ-R10   | Half Size ISA CPU card with Intel® Celeron M 1GHz / Zero Cache, LVDS/CRT for dual display, LAN, SATA with RAID, USB 2.0            |
| IOWA-8522-600-R10   | Half Size ISA CPU card with Intel® Celeron® M 600MHz / 512 K cache, LVDS/CRT for dual display, LAN, SATA with RAID, USB 2.0        |
| AC-KIT08R-R10       | 5.1 channel audio kit with realtek ALC655 AC'97 Codec  |
| 19800-000400-100-RS | LPT cable  |
| 32200-000017-RS     | FDD cable  |
| 19800-000075-RS     | KB/MS cable with bracket   |
| CF-479B-RS          | CPU cooler   |

# IOWA-MARK-R11

Half-size ISA CPU card supports VIA MARK and comes with VGA, LVDS, TTL, LAN, audio and 128 MB of on-board memory



On-board 128 MB Memory

Solder Side



## Features

1. ISA CPU card with a 533 MHz or 800 MHz VIA MARK processor
2. One 168-pin 512 MB (max.) PC133/100 SDRAM DIMM supported
3. Supports VGA, 24-bit TTL/ 18-bit dual channel LVDS
4. Two RS-232, four USB, 1.1
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
On-board 533 MHz or 800 MHz VIA MARK processor
- ◆ System Chipset  
VIA MARK + VT82C686B
- ◆ BIOS  
Award BIOS
- ◆ System Memory  
On-board 128MB SDRAM  
One 168-pin 512 MB (max.) PC133/100 SDRAM DIMM supported
- ◆ Ethernet  
10/100Mbps Realtek RTL8100C Ethernet chipset
- ◆ I/O Interface  
4 x USB 1.1                      1 x IDE  
1 x FDD                         1 x LPT  
1 x Infrared                    2 x RS-232  
1 x Keyboard and mouse (PS/2)  
1 x 6-pin header for keyboard and mouse  
1 x CF Type II
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Display Interface  
VGA integrated in the VIA MARK 24 bits TTL 18-bit dual-channel LVDS
- ◆ System Chipset  
VIA MARK + VT82C686B
- ◆ BIOS  
Award BIOS
- ◆ System Memory  
On-board 128MB SDRAM  
One 168-pin 512 MB (max.) PC133/100 SDRAM DIMM supported
- ◆ Ethernet  
10/100Mbps Realtek RTL8100C Ethernet chipset
- ◆ I/O Interface  
4 x USB 1.1                      1 x IDE  
1 x FDD                         1 x LPT  
1 x Infrared                    2 x RS-232  
1 x Keyboard and mouse (PS/2)  
1 x 6-pin header for keyboard and mouse  
1 x CF Type II
- ◆ Audio  
Realtek ALC655 with AC'97 codec
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Display Interface  
VGA integrated in the VIA MARK 24 bits TTL 18-bit dual-channel LVDS
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset , by ICP6629
- ◆ Power Supply  
5 V only, AT and ATX support
- ◆ Power Consumption  
5 V @ 2.99 A, 12 V @ 0.09 A running an on-board 800 MHz 128 MB VIA MARK processor with 128 MB of PC133 memory  
5 V @ 2.81 A, 12 V @ 0.04 A running an on-board 533 MHz 128 MB VIA MARK processor with 128 MB of PC133 memory
- ◆ Temperature  
Operating: 0°C ~ 60°C (32°F~140°F)
- ◆ Humidity  
Operating: 5% ~ 95% non-condensing
- ◆ Dimensions  
185 mm x 122 mm
- ◆ Weight  
GW: 1.0 kg

## Packing List

|  |                      |
|--|----------------------|
| 1 x IOWA-MARK single board computer            |                      |
| 1 x ATA66 flat cable (P/N: 32200-000052-RS)    |                      |
| 1 x Single RS-232 cable (P/N: 19800-000047-RS) |                      |
| 1 x Audio cable (P/N: 19800-000111-RS)         |                      |
| 1 x KB/MS Y cable (P/N: 32006-000300-100-RS)   |                      |
| 1 x USB cable (P/N: CB-USB02-RS)               | 1 x Mini jumper pack |
| 1 x Utility CD                                 | 1 x QIG              |

## Ordering Information

| Part No.                | Description  |
|-------------------------|--|
| IOWA-MARK-533-128MB-R11 | ISA CPU card VIA MARK 533 MHz, VGA/ LVDS/TTL, LAN, Audio with on-board 128 MB memory |
| IOWA-MARK-800-128MB-R11 | ISA CPU card VIA MARK 800 MHz, VGA/ LVDS/TTL, LAN, Audio with on-board 128 MB memory |
| 32200-000017-RS         | FDD cable  |
| 19800-000400-100-RS     | LPT cable  |

1

Industrial Computing Solutions

2

Video Capture Solutions

3

Embedded Computing Solutions

4

Industrial Data Collector and Controller

5

Panel Solutions Introduction

6

ORing Network Communication

7

Power Supply/ Peripherals