

# Express-DW400

Intel® Core™ 2 Duo Server Level COM Express™ Module



## Features

- Intel® Core™ Duo and Core™ 2 Duo Processor
- Two PCI Express® x4 or one x8 with EDMA
- Two vertical SODIMM or one horizontal for DDR2 400 with ECC
- Intel® 82573 GbE LAN
- USB 2.0, Serial ATA and IDE support
- Standard size PICMG® COM.0 COM Express™ Module type II

## Ordering Information

|                     |                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Express-DW400-S     | Server level COM Express™ module with 3100 chipset and socket for Core™ Duo/ Core™ 2 Duo (FSB 667 MHz) CPU                                   |
| Express-DW400V-S    | Server level COM Express™ module with 3100 chipset and socket for Core™ Duo/ Core™ 2 Duo (FSB 667 MHz) CPU and two vertical SO-RDIMM sockets |
| Express-DW400-L7400 | Server level COM Express™ module with 3100 chipset and Core™ 2 Duo L7400 at 1.5 GHz soldered onboard                                         |
| Express-DW400-U7500 | Server level COM Express™ module with 3100 chipset and Core™ 2 Duo at 1.06 GHz soldered onboard                                              |
| Express-DW400-U2500 | Server level COM Express™ module with 3100 chipset and Core™ Duo at 1.2 GHz soldered onboard                                                 |
| Express-DW400-423   | Server level COM Express™ module with 3100 chipset and Celeron® M 423 at 1.06 GHz soldered onboard                                           |



**COM**   
**Express**

## Specifications

### Core

|                  |                                                                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU              | Intel® Core™ Duo and Core™ 2 Duo at 667 MHz FSB                                                                                                                                                                                            |
| Chipset          | Intel® 3100 single integrated chip (Memory Controller Hub + I/O Controller Hub)                                                                                                                                                            |
| Memory           | Two vertical SO-RDIMM sockets for a maximum of 4 GB of registered ECC DDR2-400 memory, or optionally one horizontal socket                                                                                                                 |
| L2 Cache         | 4 MB (Core™ 2 Duo), 2 MB (Core™ Duo)                                                                                                                                                                                                       |
| BIOS             | AMI BIOS in 8Mb FWH Flash Memory with CMOS Backup function                                                                                                                                                                                 |
| Hardware Monitor | CPU temperature and system temperature/voltage monitors                                                                                                                                                                                    |
| Watchdog Timer   | Two stage watchdog timer                                                                                                                                                                                                                   |
| Expansion Busses | Two x4 PCI Express® lanes with EDMA support, configurable as a one x8 PCI Express® lane, or three x1 PCI Express® lanes<br>Four 32-bit PCI™ 2.3 Masters at 33/66 MHz,<br>Low Pin Count (LPC) bus (for SIO and ISA on carrier)<br>SMBus 2.0 |

### Multi I/O

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| USB        | Supports up to four USB 2.0 ports<br>One USB to Serial for debug or console function  |
| SATA       | Four Serial ATA ports (150 MB/s)<br>Advanced Host Controller Interface (AHCI) support |
| IDE (PATA) | One Ultra ATA 100/66/33 IDE device                                                    |

### Ethernet

|         |                                                     |
|---------|-----------------------------------------------------|
| Chipset | Intel® 82573 GbE Controller                         |
| Type    | Triple speed 10/100/1000BASE-T IEEE 802.3 compliant |

### Mechanical and Environmental

|                 |                                                |
|-----------------|------------------------------------------------|
| Formfactor      | COM Express™ basic form factor, type 2 pin-out |
| Dimensions      | 95 x 125 mm                                    |
| Operating Temp. | 0° to 60°C                                     |
| Storage Temp.   | -20° to +80°C                                  |

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8  
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9  
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Security  
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10  
Panel PC

11  
IPC  
Accessories

# Express-IW400

Intel® Pentium® M Server Level COM Express™ Module



## Features

- Intel® Celeron® M and Pentium® M Processor
- Two PCI Express® x4 or one x8 with EDMA
- Two vertical SODIMM or one horizontal for DDR2 400 with ECC
- Intel® 82573 GbE LAN
- USB 2.0, Serial ATA and IDE support
- Standard size PICMG® COM.0 COM Express™ Module type II

## Ordering Information

|                   |                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Express-IW400-S   | Server level COM Express™ module with 3100 chipset and socket for Celeron® M 370 at 1.5 GHz or Pentium® M 745 at 1.8 GHz CPU                                   |
| Express-IW400V-S  | Server level COM Express™ module with 3100 chipset and socket for Celeron® M 370 at 1.5 GHz or Pentium® M 745 at 1.8 GHz CPU and two vertical SO-RDIMM sockets |
| Express-IW400-373 | Server level COM Express™ module with 3100 chipset and Celeron® M 373 at 1 GHz soldered onboard                                                                |
| Express-IW400-738 | Server level COM Express™ module with 3100 chipset and Pentium® M 738 at 1.4 GHz soldered onboard                                                              |

## Specifications

### Core

|                  |                                                                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU              | Intel® Pentium® M and Celeron® M at 400 MHz FSB                                                                                                                                                                                            |
| Chipset          | Intel® 3100 single integrated chip (Memory Controller Hub + I/O Controller Hub)                                                                                                                                                            |
| Memory           | Two vertical SO-RDIMM sockets for a maximum of 4 GB of registered ECC DDR2-400 memory, or optionally one horizontal socket                                                                                                                 |
| L2 Cache         | Dothan type processors: 1 MB (Celeron® M), 2 MB (Pentium® M)                                                                                                                                                                               |
| BIOS             | AMIBIOS® in 4 Mb FWH Flash Memory with CMOS Backup function                                                                                                                                                                                |
| Hardware Monitor | CPU temperature                                                                                                                                                                                                                            |
| Watchdog Timer   | Two stage watchdog timer                                                                                                                                                                                                                   |
| Expansion Busses | Two x4 PCI Express® lanes with EDMA support, configurable as a one x8 PCI Express® lane, or three x1 PCI Express® lanes<br>Four 32-bit PCI™ 2.3 Masters at 33/66 MHz,<br>Low Pin Count (LPC) bus (for SIO and ISA on carrier)<br>SMBus 2.0 |

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