## Why eFlex?

**Ever since the IBM 7531 brought x86 PCs into the realm of industrial computing, the industry has seen two distinct evolutionary paths. One of these spawned bulky, but highly configurable and expandable systems - such as those based on industrialized adaptions of ATX mainboards or PICMG CPU cards mated to backplanes. The other gave birth to increasingly compact embedded PCs - such as those based around 3.5" and PC/104 single board computers. With one class of solutions offering great expandability and configurability through multiple expansion slots, while another touting space and power efficiency with highly condensed designs, users are forced to choose between the flexibility and size.**

**With IBASE's eFlex, that difficult choice is no longer necessary for many applications. eFlex bridges the gap between full sized computing solutions and micronized systems with a comprehensive industrial computing solution incorporating three main components:**

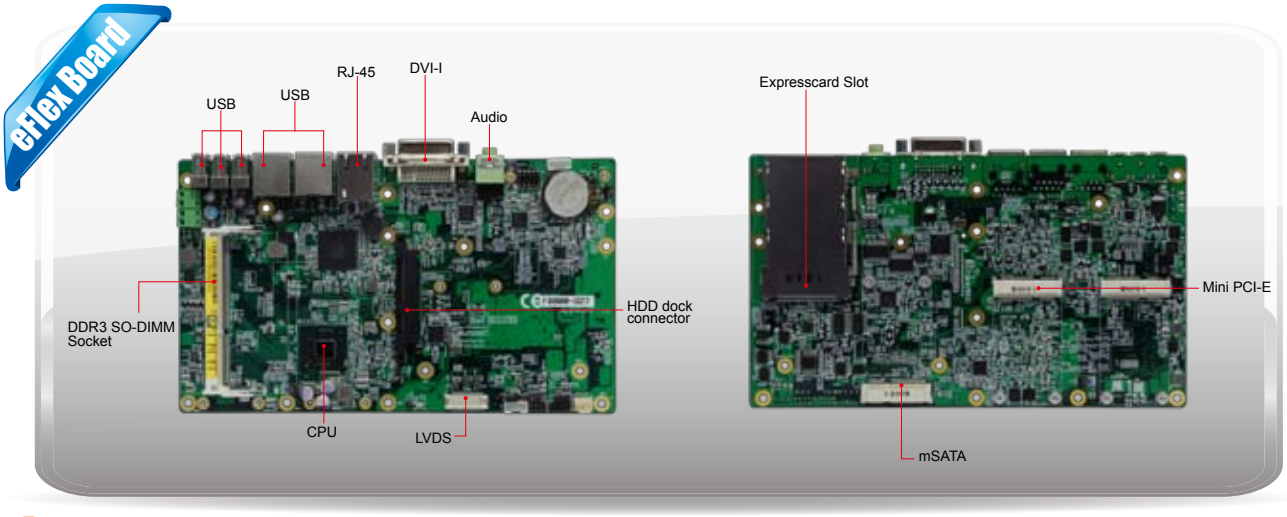
- **eFlex mainboards – small form factor with multiple expansion slots**
- **eFlex enclosures – standardized and interchangeable enclosures**
- **mPCIe, mSATA and Expresscard expansion boards – non-proprietary, readily available expansion cards**

## eFlex Enclosures

**eFlex enclosures are mechanically interchangeable between eFlex mainboards (thermal dissipation capacity permitting). They feature standardized I/O bays and plates. At launch, IBASE offers two industrial enclosure solutions – the slimline AFB100 and the double deck AFB200. The AFB100 offers a low profile (30mm) solution with one auxiliary I/O bay for mPCIe expansion cards. The AFB200 offers a double height configuration with three auxiliary I/O bays. Both chassis offer an externally accessible SSD/HDD bay and the option of either 12V or 6~34V DC power inputs.**

## eFlex Mainboards

**Packed onto the compact 190 x 110 mm eFlex form factor are three (3) industry standard Mini PCI-E sized expansion slots, an Expresscard slot and a 2.5" SSD/HDD dock. There is also a standardized set of external I/O connectors affording full interchangeability amongst eFlex boards and chassis.**




### Features

- Intel® Atom™ D2700 2.13GHz Dual Core CPU
- iSMART - for auto-scheduler and power resume
- 2x Mini PCI-E(x1), 1x mSATA, 1x Expresscard slot, 2.5" SSD/HDD dock
- DVI-I, GbE, 2x COM, 3x USB (Standard eFlex external I/O set)



Remarks: 1. Specifications are subject to change without prior notice.
2. ODM/OEM is available


## Features

- Fanless System for IBASE FB800 eFlex SBC
- Onboard Intel® Atom™ Processor D2700, 2.13GHz
- iSMART - for auto-scheduler and power resume
- One 2.5" HDD or SSD
- Internal expansion socket for mSATA
- Front panel I/O for Expresscard, audio jack, DVI-I, GbE, COM, USB and DC-in connector

## Specifications

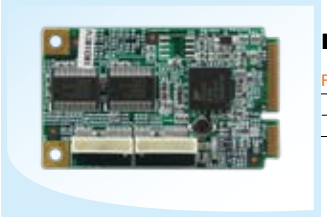
| | |
|---|---|
| System Mainboard | FB800 |
| CPU Type | Intel® Atom™ Processor D2700 |
| System Speed | 2.13GHz |
| Memory | 1 x DDR3 SO-DIMM, Max. 4GB |
| Front Panel External I/O | 1x DC-jack<br>1x Express Card slot<br>1x Power LED<br>1x HDD LED<br>1x Headphone jack<br>1x DVI-I<br>1x RJ45 GbE<br>2x COM (RJ45 type)<br>3x USB 2.0 |
| Storage | 1x 2.5" HDD or SSD<br>1x mSATA |
| Power Supply | 60W DC power supply |
| Mounting | Slim design with wall mounting holes |
| Dimensions | 275mm(W) x 214mm(D) x 37mm(H) |
| Construction | Aluminum & Steel |
| Weight | TBC |
| Chassis Color | Black & White |
| Operating Temperature | 0°C~ 45°C (32°F~113°F) |
| Storage Temperature | -20° ~ 80°C (-4°F~176°F) |
| Relative Humidity | 5~90% @ 45°C, (non-condensing) |
| Vibration | TBC |

## Ordering Information

| | |
|---|---|
| AFB100-D27 | Fanless System with IBASE FB800 eFlex SBC, w/ Intel® Atom™ D2700 (2.13GHz) CPU, 2GB DDR3 SO-DIMM , 2.5" 250GB SATA HDD, 60W DC power |

## Expansion boards

**eFlex systems utilize the Expresscard, mSATA and Mini PCI-E expansion cards to facilitate expansion and customization. IBASE offers the following expansion cards, but an eFlex system can also tap the broad selection of industry standard Expresscard, mPCIe(x1) and mSATA from third parties.**



### IBD-182

Features
- 2x Mini PCI-E to RS232
- 47.72 x 30 mm


### IBD-183

Features
- Mini PCI-E to 1x RS232 + 1x RS422/485
- 47.72 x 30 mm


### IBD-184

Features
- 4x Mini PCI-E to RS232
- 47.72 x 30 mm