

IEI EPIC NANO

1
Industrial Computing Solutions

EPIC - NANO is to define a new industry open standard for small form factor embedded computer boards, called Embedded Platform for Industrial Computing or EPIC. Single board computers with multiple I/O expansions options. Its size is midway between the industry standard PC/104 module and EBX board. This size board will support advanced processors plus complex I/O functions for applications involving data acquisition, video processing, telecommunications, networking, motion control plus the associated field wiring termination, I/O circuit protection, etc. The initial specifications defines PC/104 expansions; however, future updates will embrace PCI express and/or other fabrics. The EPIC standard provides a platform on which to build the next generation of Features-rich, embedded systems for industrial, medical, military, transportation, and commercial applications.

2
Embedded Computing Solutions

EPIC History

A new platform for embedded single board computer with multiple I/O expansions options. Defined by 5 leading SBC manufacturers: Micro/sys, Octagon Systems, VersaLogic, WinSystems, Ampro Computers. Specifications were released on March 23, 2004

3
Industrial Data Collector and Controller

Key Features

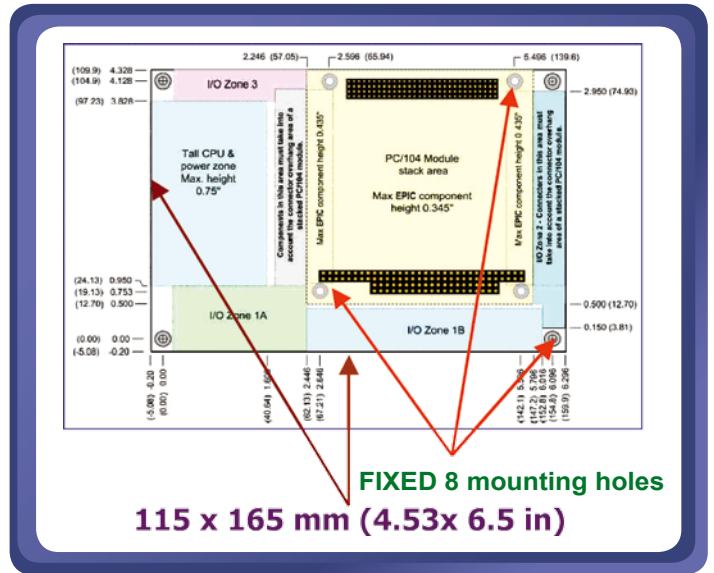
- Fixed Dimensions and mounting holes
- Fixed I/O interface
- Fixed PCI 104, PC/104 location
- Fixed CPU location



4
Video Capture Solutions

Benefits from NANO Board

- Easy upgrading from same EPIC form factor CPU boards
- Complex I/O functions based on customers requirements
- Small form factor
- Saves money and space with cables and shared chassis



5
I/O Communication Solutions

Dual display solutions

| Chipset | Intel® GM45 | Intel® 945GME | | Intel® 945GSE | | | Intel® 852GM | |
|--------------|---|-------------------------|---|---------------|-------------------------|--|--------------|------------|
| Model Name | NANO-GM45A | NANO-9453 | NANO-9452 | NANO-945GSE3 | NANO-945GSE2 | NANO-945GSE | NANO-8522 | Enano-8523 |
| Dual Display | VGA + LVDS VGA + Display port LVDS + Display Port | VGA + LVDS VGA + VGA | VGA + LVDS VGA + HDTV LVDS + HDTV | VGA + LVDS | VGA + LVDS VGA + TTL | VGA + LVDS VGA + HDTV LVDS + HDTV LVDS + LVDS | VGA + LVDS | VGA + LVDS |

6
Panel Solutions

CPU support

| Chipset | Intel® GM45 | Intel® 945GME | |
|------------|------------------|-----------------|-----------------|
| Model Name | NANO-GM45A | NANO-9453 | NANO-9452 |
| Dual Core | Socket P 1066MHz | Socket M 667MHz | Socket M 667MHz |



7
ORing Network Communication

| Chipset | Intel® 945GSE | Intel® 852GM | | AMD LX800 | AMD GX466 |
|-------------|---|------------------------|------------|-----------|-----------|
| Model Name | NANO-945GSE NANO-945GSE2 NANO-945GSE3 | NANO-8522 | Enano-8523 | NANO-LX | NANO-GX |
| Single Core | Atom™ N270 | Pentium® M /Celeron® M | Celeron® M | LX800 | GX466 |

8
Power Supply Peripherals

Embedded system mapping

Dual Core

Embedded Fanless System

| Embedded System | ECN-381B | ECN-171A | ECN-171B | EBC-2100 | EBC-2101 |
|-----------------|------------|------------------------|-----------|---------------------------------|-------------|
| Model | NANO-GM45A | NANO-9453 NANO-9452 | NANO-8522 | NANO-8522 NANO-LX NANO-GX | NANO-945GSE |