



## NANOPAK FEATURES

### GENERAL

- VITA-74 Derivative
- All I/O through front panel connector

### CPU AND MEMORY

- Intel Atom N455 @ 1.66 GHz
- 512 KB DDR2 SDRAM @ 667 MHz
- Dimensions 89 mm (W) X 21 mm (H) X 90 mm (D)
- Weight .2 kg (typical system)
- Linux® and Microsoft Windows®

### ENVIRONMENTAL

- Conduction Cooled
- Operating Temperature -40° C to + 85° C

### MILITARY SPECIFICATION

- MIL-STD-810G, MIL-STD-461F

## NanoPAK

### Small Form Factor Computer

The small, light footprint and powerful performance of the NanoPAK small form factor computer make it an ideal solution for rugged commercial and military field applications. This compact, mobile standalone rugged computer is designed to survive in demanding environments. The NanoPAK supports a myriad of field applications that include real time control, data recorders, small storage and communications systems, and mobile robotics.

The first NanoPAK system integrates the Intel Atom processor and FLASH storage in a small, light footprint that optimizes size, weight, power, and cooling. Leveraging thermal and kinetic management design expertise, the NanoPAK boasts a hardened-aluminum conduction-cooled chassis, designed to withstand extreme environmental conditions. The rugged NanoPAK is ideal for a wide range of mission-critical applications, while its performance and cost-competitive price make it an attractive choice for commercial and industrial use.

## TECHNICAL SPECIFICATIONS

| PARAMETER              | DESCRIPTION                       |
|------------------------|-----------------------------------|
| CPU                    | Intel Atom N455 @1.66 GHz         |
| CPU Cores              | 1                                 |
| CPU Threads            | 2                                 |
| Chipset                | Intel IC8HM                       |
| SDRAM                  | 512 MB DDR2 @ 667 MHz             |
| FLASH                  | 1 or 2 GB (option)                |
| SATA                   | 1x SATA II                        |
| VGA                    | 1x, 1400 x 1050 @ 60 Hz           |
| RS-232                 | 1x TXD/RXD                        |
| GigE                   | 1x                                |
| USB 2.0                | 2x                                |
| I2C                    | 1x                                |
| Audio In               | 1x                                |
| Audio Out              | 1x                                |
| GPIO                   | 2x External I/O                   |
| Dimensions             | 89 mm (W) X 21 mm (H) X 90 mm (D) |
| Weight                 | 2 Kg (typical system)             |
| Power                  | 18 to 36 VDC @ 7 W (Typical)      |
| Military Specification | MIL-STD-810G, MIL-STD-461F        |

## THEMIS NANO SMALL FORM FACTOR SOLUTIONS

NanoPAK systems are complete, stand alone computer systems designed for various rugged environments including unmanned vehicles, ground vehicles, man-wearable, shipboard and other environments, where space, weight, power and cost are critical. All standard PC interfaces are available, plus others such as MIL-STD-1553, CAN Bus, Discretes, and others. For more information, please contact Themis. Drivers and Board Support Packages are available for Linux® and Windows®. Please contact Themis for information on using other Real Time Operating Systems such as VxWorks®, Integrity® and LynxOS®.

## THEMIS VALUE

Themis provides systems manufacturers and end-users with the most modern, best of breed computing resources available. Package and performance scale from small form factor embedded servers to bladed servers. We listen, understand, and work closely with customers to optimize computing solutions that are easy to integrate, inexpensive to own and operate, and that achieve the right balance between standard commercial technology, environmental resiliency, and optimized space, weight, and performance.



**Corporate Headquarters**  
47200 Bayside Parkway  
Fremont, CA 94538  
Tel: 510-252-0870  
Fax: 510-490-5529  
www.themis.com

**European Sales Office**  
5 rue Irène Joliot-Curie  
38320 Eybens, France  
Tel: +33.476.14.77.86  
Fax: +33.476.14.77.89

**For More Information**  
Please visit [www.themis.com](http://www.themis.com)  
or contact Themis sales at:  
USA +1 (510) 252-0870  
Europe +33 (0) 476.14.77.86

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