

# **BANTE**

## **BUILDING AUTOMATION NETWORK TRANSFORM ENGINE**

The Building Automation Network Transform Engine is a new way of thinking. The BANTE combines the Niagara AX software platform with an industrial hardware platform. The BANTE flips traditional automation way of thinking on its head with such a powerful platform we can transform almost any protocol and norm into one powerful automation network system.

Traditional automation systems typically use proprietary protocols and if they do use open protocols such as BACnet vendors will use the building controllers to lock customers in to proprietary relationships. To have a truly non-proprietary system top to bottom both the subordinate controllers and supervisory have to use open protocols. The BANTE is truly open top to bottom and is completely versatile which allows for a more efficient overall cost point.

Beyond the integration by utilizing a new set of BACnet controllers that are versatile and powerful, the new controllers have the power of much more expensive controllers at a lower cost point. Combining all of these new versatile concepts and controllers we are able to install a powerful automation system at a far lower cost point.

# Multi-Purpose Celeron® 807UE Industrial PC

## Key features

- ✓ Fanless design with corrugated aluminum chassis
- ✓ 4 x DB9 for RS-232 and RS232/422/485 x 2
- ✓ RS-485 hardware Auto Flow Control
- ✓ OS support for both Linux and Windows
- ✓ Wide voltage input range (+18~36 V DC)
- ✓ Multiple display output (VGA and DVI-D)
- ✓ Easily-opened chassis, no tools required
- ✓ Various mounting options
- ✓ Remote power control
- ✓ Integrated SIM card reader



## Overview

The BANTE is a Niagara SoftJace platform which utilizes a LEC-2260 hardware platform.

As a general-purpose JACE, the BANTE base unit is positioned for users who require more power than the entry-level Atom™ from Intel®, but remain cost-conscious in seeking industrial computing performance. With the optional 3G and WiFi modules available for the BANTE the addition of a thermal kit and industrial components allows for sustained operation at temperatures between -20°C and 55°C. The device also offers a wide voltage range (18 to 36 V) to support deployment in a broad array of differing architecture environments.

The BANTE provides a rich selection of interface options, including two Gigabit Ethernet LAN ports, four USB 2.0 ports, four serial COM ports, and a DIO connection. For display output both DVI-D and VGA are included as standard. By using the 807UE CPU the BANTE is able to take advantage of Intel's advances in power consumption efficiency, allowing for a total system thermal design power of just 10 watts.

## Specifications

Platform	
CPU	Intel® Celeron® 807UE 1.0 GHz
Chipset	Intel® HM65

BIOS	AMI 32bit SPI UEFI BIOS
Memory Technology	DDR3 1066/1333 MHz
Memory Capacity	4 GB
Memory Socket	2 x 204-pin SODIMM socket
<b>Storage</b>	
IDE storage	CF socket Type I/II x 1
SATA storage	1 x 2.5" HDD / SSD bay
<b>I/O</b>	
Ethernet controller	Intel 82583V x 2
Graphic controller	Intel® onboard GMA HD Graphics
Default LAN	2 x 10/100/1000 Mbps, Autosensing, RJ45
Display output	VGA x 1, DVI-D x 1
USB 2.0	4 x Type A
<b>Power and Mechanical</b>	
Expansion	2 x Mini-PCIe expansion sockets, one with SIM card reader
Fan cooling	Fanless
<b>OS and Certifications</b>	
Operating System	Linux, Microsoft Window 7/7 Embedded/XP/XP Embedded
Certifications	CE Emission, FCC Class A, RoHS
<b>Physical and Environmental</b>	
Operating temperature	-20°C to 45°C
Operating temperature (industrial components)	-20°C to 55°C
Storage temperature	-20°C to 80°C
Operating humidity	5% to 95% (non-condensing)
Storage humidity	5% to 95% (non-condensing)
Dimensions (W x H x D)	277.65 mm x 59 mm x 175 mm (10.83" x 2.30" x 6.83")

Weight	2.5 kg (5.5 lbs)
Watchdog	1~255 level time interval system reset, software programmable
Internal RTC	With lithium battery back-up
Warranty	2 years
Casing material	Top: Aluminum, Bottom: SGCC (galvanized high carbon steel)