

# NWA-6300 Series

Standard / Extended Temperature Network Security Appliance  
with Intel® BayTrail Processor



- Intel® BayTrail Processor
- 2x DDR3L SO-DIMM Socket
- 4x GbE, 1x COM, 2x USB 2.0, 1x USB 3.0, 1x VGA
- Cost effective Network platform solution
- Flexible Software Control Bypass
- Friendly LED indicators (Software status, Alarm)
- 1x 2.5" SATA HDD/SSD, 1x mSATA
- Extended temperature model available: -20°C ~ 60°C



## Product Overview

The NWA-6300 series is a fanless network security which is ideal for space critical applications. This embedded hardware platform features Intel® BayTrail Processors, and 2x DDR3L SO-DIMM. It comes with 2x USB2.0, 1x USB 3.0, 1x VGA, 4x GbE LAN, 1x COM, 1x mSATA, and 1x SD card cage.

The NWA-6300 series provides high reliability rugged case not only for great protection from EMI, cold and heat, but also integrated with passive cooling design for quiet fanless operation.

## Technical Information

<b>CPU Support</b>
NWA-6300 : Intel® Atom™ BayTrail Dual Core E3825 Processor (1M Cache, 1.33 GHz) NWA-6305 : Intel® Celeron® BayTrail Quad Core J1900 Processor(2M Cache, 2.42 GHz) NWA-6345 : Intel® Atom™ BayTrail Quad Core E3845 Processor(2M Cache, 1.91 GHz)
<b>Graphics</b>
Intel® HD Graphics
<b>Memory</b>
NWA-6300 : 2x DDR3L SO-DIMM Sockets up to 4 GB NWA-6305/6345 : 2x DDR3L SO-DIMM Sockets up to 8 GB
<b>BIOS</b>
AMI uEFI BIOS & 1x 64MB SPI flash ROM
<b>LAN</b>
4x RJ-45 Connectors ■ Intel® I210-AT Ethernet Controller support ■ Bypass function is supported between LAN1 & LAN2 ■ PXE support
<b>Storage</b>
1x SATA Connector 1x mSATA Socket 1x SD Card Cage (For NWA-6300 only) 1x 2.5" SATA HDD /SSD
<b>USB</b>
USB3.0 support ■ 1x USB3.0 USB2.0 support ■ 2x USB2.0 ports
<b>LED</b>
1x Power LED in Green 1x Status LED in Green for GP output 1x Status LED in Red for GP output 1x Bypass LED in Yellow 4x ACT/LINK LEDs for LAN1-LAN4, Green 4x Speed LEDs for LAN1-LAN4, 10-Off / 100-Green / 1000-Yellow 1x Switch Button on rear I/O for GP input support

<b>VGA</b>															
1x VGA															
<b>RTC</b>															
SoC intergrated RTC															
<b>COM</b>															
1x COM port for RS-232 support, Console redirect support															
<b>Hardware Monitor</b>															
Voltages monitoring Temperature monitoring															
<b>TPM</b>															
Option Intersil SLB9635 for TPM support															
<b>Watchdog Timer</b>															
<table border="1"> <thead> <tr> <th>Item</th> <th>Watchdog command timeout</th> <th>Relay controlled by</th> <th>Relay status when power lose</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System reset</td> <td>GPIO</td> <td>None-Bypass</td> <td></td> </tr> <tr> <td>2</td> <td>LAN Bypass</td> <td>Watchdog</td> <td>LAN Bypass</td> <td>The status of Relay must be recognized by software</td> </tr> </tbody> </table>	Item	Watchdog command timeout	Relay controlled by	Relay status when power lose	Remark	1	System reset	GPIO	None-Bypass		2	LAN Bypass	Watchdog	LAN Bypass	The status of Relay must be recognized by software
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1	System reset	GPIO	None-Bypass												
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<b>Power</b>															
9V ~ 24V DC input															
<b>OS Supported</b>															
Windows 7, Windows 8, Linux															
<b>Dimensions</b>															
219 x 40 x 151 mm (W x H x D)															
<b>Environment</b>															
For CPU J series : Operation Temp: 0 °C ~ 45 °C Humidity: 0 % ~ 95 % For CPU E series : Operation Temp: -20 °C ~ 60 °C Humidity: 0 % ~ 95 %															
<b>Other</b>															
LCM function support (optional)															
<b>Certification</b>															
CE, FCC Class A															

## NWA-6300 Series I/Os

