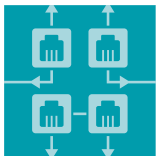# Network Security Solution Product Selection Guide

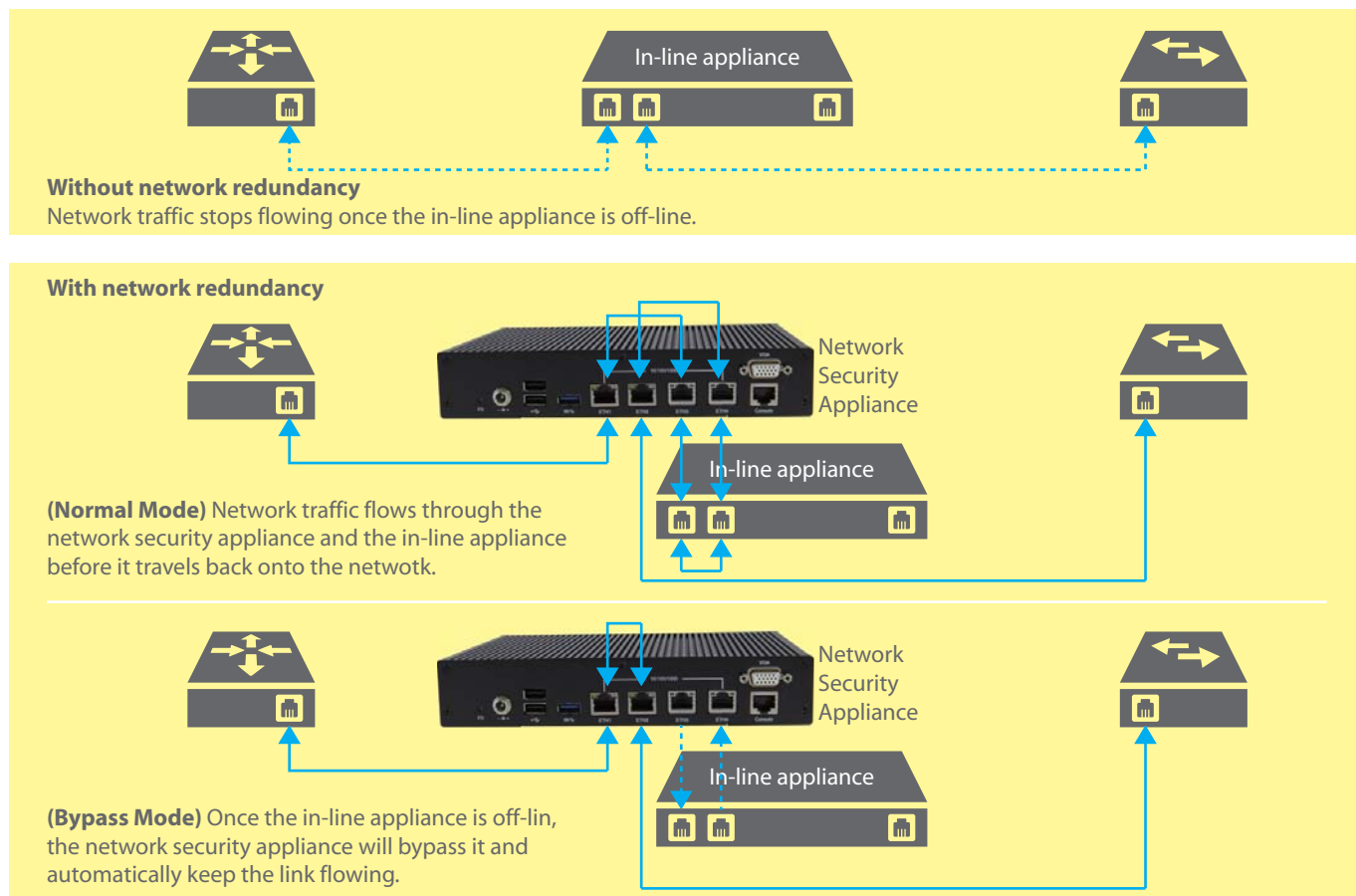Network Security Appliance

Quanmax

Solutions for Network Security

Network plays an important role in today's business models. Any accidental or unexpected network outage may eventually cause uncountable damages or losses to information and business. In consequence, building a network redundant mechanism into an enterprise network infrastructure is a smart investment to ensure continuity of communication and data flow.

Quanmax's network security appliances are the right solution to the challenge mentioned above. Equipped with several LAN ports and supporting LAN bypass function, they can instantly pass the link to the next available paths in case of a single point of network failure. They are therefore suitable for the enterprises who want to build a network redundancy to ensure maximum uptime and availability or for network-based applications such as VPN (Virtual Private Network), IDS (Intrusion Detection System), IPS (Intrusion Prevention System), UTM (Unified Threat Management), network bandwidth controller, anti-spam, anti-virus and so on.

In-line appliance

Without network redundancy
Network traffic stops flowing once the in-line appliance is off-line.

With network redundancy

Network Security Appliance

In-line appliance

(Normal Mode) Network traffic flows through the network security appliance and the in-line appliance before it travels back onto the netwotk.

Network Security Appliance

In-line appliance

(Bypass Mode) Once the in-line appliance is off-lin, the network security appliance will bypass it and automatically keep the link flowing.

About Quanmax

Founded in 1999, Quanmax is committed to supply high-quality embedded computing products and solutions to help its clients develop a variety of computer-aided facilities for individual users and business firms in all industries including but not limited to Digital Signage, KIOSK, Gaming, Factory Automation, Machine Automation, Building Automation, Transportation & Logistics, Medical System and Telecom.

Now, Quanmax's businesses can be divided into five categories:
- Motherboards (ECX, Pico-ITX, Com-Express, QSEVEN, Mini-ITX, Micro-ATX, ATX)
- Infotainment Solutions;
- Automation Solutions;
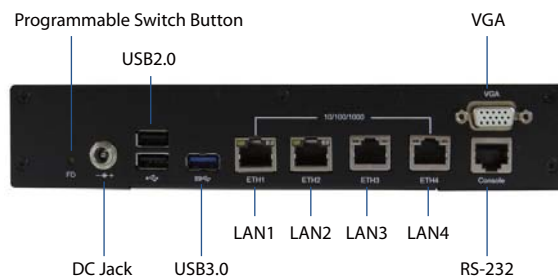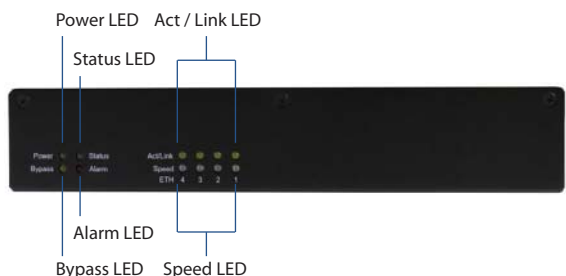- IoT Solutions; and
- Network Security Solutions.

With strong engineering competence in customized design, software integration, system optimization and life cycle management, Quanmax can always launch appropriate products in accordance with each market segment and customer or even more than expected.

NWA-6300 Series

Fanless

Extended Temp.

Aluminum Housing

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

- Intel® BayTrail SoC Processor, Atom™ E3825/E3845 / Celeron® J1900
- 1x/2x DDR3L SO-DIMM Socket
- 1x 2.5" SATA HDD/SSD, 1x mSATA, 1x/0x SD Card Cage for storgae
- 1x VGA for video output
- 4x LAN for network connection w/ 2x bypass function
- 1x USB3.0, 2x USB2.0, 1x RS-232 for peripheral connection
- Friendly LED indicators
- Fanless design
- Extended temperatue model available:-20℃ ~ 60℃

Power LED   Act / Link LED

Status LED

Alarm LED

Bypass LED   Speed LED

Programmable Switch Button   VGA

USB2.0

DC Jack   USB3.0   RS-232

LAN1 LAN2 LAN3 LAN4

Processor
NWA-6300: Intel® Atom™ E3825 (Dual Core, 1M Cache, 1.33 GHz)
NWA-6305: Intel® Celeron® J1900 (Quad Core, 2M Cache, up to 2.42 GHz)
NWA-6345: Intel® Atom™ E3845 (Quad Core, 2M Cache, 1.91 GHz)

Memory
1x DDR3L 1067 SO-DIMM up to 8 GB (NWA-6300)
2x DDR3L 1333 SO-DIMM up to 8 GB (NWA-6305/6345)

BIOS
AMI uEFI BIOS w/ 64Mb SPI Flash
WDT: Programmable WDT to generate system reset or LAN bypass
H/W Monitor: Voltages, Temperatures
Real Time Clock: SoC intergrated RTC
TPM: TPM support (Infineon SLB9635)

Storage
1x 2.5" SATA HDD / SSD
1x mSATA
1x SD Card Cage (NWA-6300/6345 only)

Graphics Controller
Intel® HD Graphics (integrated)

Display Interfaces
1x VGA (on rear, 2560 x 1600 @ 60Hz)

Ethernet
4x LAN (on rear, Intel® I210-AT, LAN1 & LAN2 Bypass, PXE support)

USB
1x USB3.0 (Type A on rear)
2x USB2.0 (Type A on rear)

Serial Port
2x RS-232 (RJ-45 on rear, console redirection support)

Power Supply
Connector: Lackable DC Jack (on rear)
Input Voltage: DC 9V ~ 24V

Button & Switch
1x Programmable Switch button (on rear, GP input support)

Status Indicators
1x Power LED (on front, green)
1x Status LED for GP output (on front, green)
1x Alarm LED for GP output (on front, red)
1x Bypass LED (on front, yellow)
4x Act/Link LED for LAN1 ~ LAN4 (on front, green)
4x Speed LED for LAN1~LAN4 (on front, 10: off/ 100: green/ 1000: yellow)

Cooling
Fanless

OS Support
Windows, Linux

Construction
Aluminum Chassis

Dimension (W x D x H)
219 x 151 x 40 mm / 8.62" x 5.94" x 1.57"

Weight
1.42 kg / 3.13 lb

Environmental Characteristics
Operating Temperature: 0℃ ~ 45℃ / 32°F ~ 113°F (NWA-6305)
-20℃ ~ 60℃ / -4°F ~ 140°F (NWA-6300/6345)
Storage Temperature: -20℃ ~ 80℃ / -4°F ~ 176°F
Humidity: 0% ~ 95%

Certification
CE, FCC Class A

Ordering Information

Model Name	Description	Description
NWA-6300	NWA-6300	Intel® Atom™ E3825, 1x DDR3L, 1x 2.5" SATA HDD/SSD, 1x mSATA, 1x SD Card Cage, 1x VGA, 4x LAN, 1x USB3.0, 2x USB2.0, 1x RS-232, Op. temp.: -20℃ ~ 60℃
NWA-6305	NWA-6305	Intel® Celeron® J1900, 2x DDR3L, 1x 2.5" SATA HDD/SSD, 1x mSATA, 1x VGA, 4x LAN, 1x USB3.0, 2x USB2.0, 1x RS-232, Op. temp.: 0℃ ~ 45℃
NWA-6345	NWA-6345	Intel® Atom™ E3845, 2x DDR3L, 1x 2.5" SATA HDD/SSD, 1x mSATA, 1x SD Card Cage, 1x VGA, 4x LAN, 1x USB3.0, 2x USB2.0, 1x RS-232, Op. temp.: -20℃ ~ 60℃

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always the right way with embedded future

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