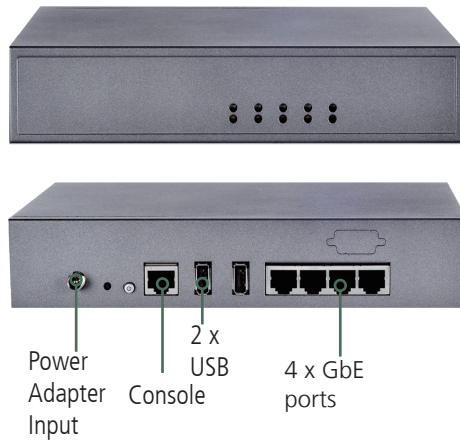# FW-7543

Desktop x86 Network Security Platform with Intel® Celeron® J1900 and Atom™ E3800 (Codenamed "Bay Trail")

Power
Adapter
Input

Console

2 x
USB

4 x GbE
ports

Overview

The FW-7543 is the first Lanner network security platform based on Intel®'s Celeron® J1900 and Atom™ E3800 "Bay Trail" CPU, giving it an extremely low power profile. Targeted at UTM, FIrewall, VPN, IPS, and WAN optimization applications, the FW-7543's compact size and advanced processor makes it ideal for deployment in an SMB environment.

Features

Intel® Atom™ E3800 and Celeron® J1900 CPU (codenamed "Bay Trail")

The Intel® Atom™ E3800 and Celeron® J1900 processor (formerly codenamed "Bay Trail") is a multi-core SoC featuring high levels of I/O integration and low power consumption. This platform is targeted at entry to mid level branch office routers, security appliances, switches, wireless and control plane applications.

Virtualization Technology (VT-x) Support

Intel virtualization technology (Intel VT) is a hardware-assisted portfolio of capabilities to enhance virtualization. For processors, the Intel VT-x is a bundle of virtualization features built into Intel Xeon processors to improve the flexibility and robustness of software-based virtualization solutions.

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DDR3L Memory
The fully integrated SoC also supports DDR3L RAM, which features 10% lower voltage than DDR3, thereby increasing power efficiency.

Compact Design
Engineered for applications with limited space, this product has dimensions that permit deployment in small cabinets, machinery, and almost any place necessary.
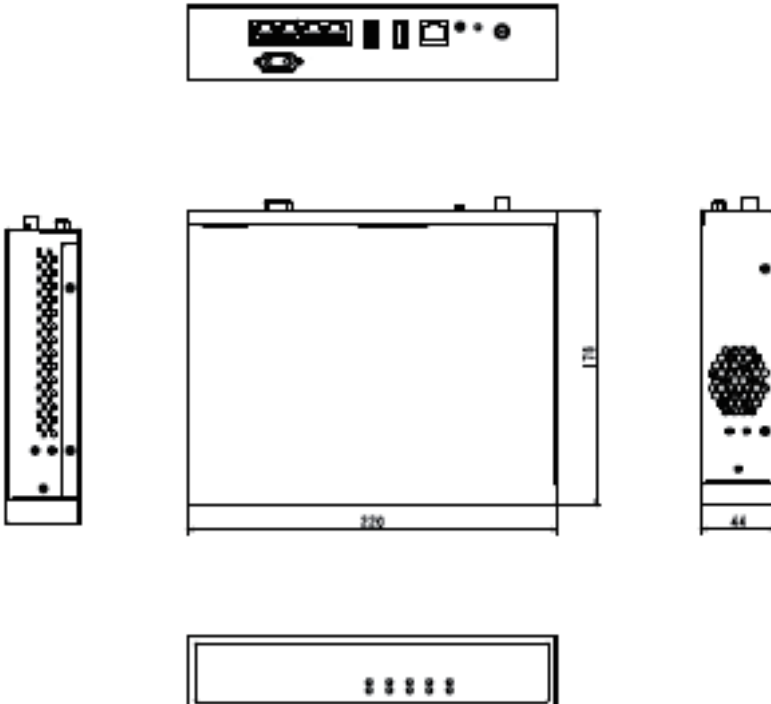
Rack Mounting Kit Option Available
The FW-7543 provides rack mounting option which is a long ear to hook up the rack. This design is ideal for desktop form factor device to place on the rack to save the space in computer room.

Watchdog
The embedded watchdog monitors the system and automatically triggers a reset if software hangs.

Dimensions (W x H x D): 220 x 44 x 176 mm

Specifications

Form Factor		Desktop
Platform	Processor Options	Single-core Intel® Atom™ processor E3815 or Quad-core Celeron® processor J1900* series (Codenamed "BayTrail")
	Chipset	N/A
OS Support		Win 7, WES 7, Win 8, WES 8, WEC 7, Linux (Fedora 18/Yocto)
BIOS		AMI BIOS
System Memory	Technology	J1900: Dual-channel DDR3L-1333 E3815: Single-channel DDR3L-1067
	Max. Capacity	8 GB
	Socket	1 x 204-pin SODIMM
Storage	HDD Bays	1 x 2.5" HDD/SSD kit (Optional)
	CF/SD	1 x CF card Type II
Networking	Ethernet Ports	4 x GbE RJ-45 onboard
	Bypass	N/A
	Controllers	4 x Intel i211
	Ethernet Modules	N/A
	Management Port	N/A
I/O Interface	Reset Button	Yes
	Console	1 x RJ45
	USB	2 x USB 2.0
	IPMI via OPMA slot	N/A
	Display	2x6, 2.0 pin header
Expansion	PCIe	N/A
	PCI	N/A
Cooling	Processor	CPU heatsink with fan duct
	System	1 x cooling Fan
Environmental Parameters	Temperature, ambient operating / storage	0 ~ 40° C / -20~70° C
	Humidity (RH), ambient operating / ambient non-operating	5~90%, non-condensing / 5~95%, non-condensing
Miscellaneous	LCD Module	Reserve for ODM
	Watchdog	Yes
	Internal RTC with Li Battery	Yes
Physical Dimensions	Dimensions (WxHxD)	220 x 44 x 176 mm
	Weight	1.2 kg
Power	Type / Watts	Power Adapter / TBD
	Input	100~240 V @50~60 Hz
Approvals and Compliance		CE Class A, FCC Class B, RoHS

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Ordering Information

FW-7543A	Intel® Atom™ processor E3815 (Codenamed "Bay Trail"), 4 Intel GbE LAN ports without Bypass, 1 RJ45 console, 2 x USB, 1 x CF socket, 1 x SATA, power adapter, optional 1 x 2.5" HDD Support
FW-7543B	Intel® Celeron® processor J1900 series (Codenamed "Bay Trail"), 4 Intel GbE LAN ports without Bypass, 1 RJ45 console, 2 x USB, 1 x CF socket, 1 x SATA, power adapter, optional 1 x 2.5" HDD Support