



**YOUR
NEXT-GENERATION
DIGITAL FORTRESS**

by www.numeryx.fr

HW4112

1U 19" Rackmount Network Appliance Built with AMD EPYC 3000 Series 4~8 Cores CPU

HW4035

1U 19" Rackmount Network Appliance With Intel Xeon® D-2700 Multi-core CPU (Codenamed Ice Lake D)

HW1513

Desktop Network Appliance Powered by Intel® Atom® C3000 (Denverton) CPU

www.sasyx.net

Inspiré de la puissante cité mythique d'Asgard, notre produit tire sa force de son nom évocateur et de son slogan captivant : "Your next generation digital fortress".

Avec Asguard, vos équipes techniques bénéficient d'une solution complète pour sécuriser vos

infrastructures numériques. Notre pare-feu permet aux équipes de visualiser facilement l'état des ressources, les services installés, les passerelles, le système d'information ainsi que les interfaces réseau. Asguard garantit une prise en main rapide et efficace, pour une sécurité sans compromis.

> FONCTIONNALITÉS DE BASE

Fonctionnalités	Type	Actif
RESEAU		
IP Filter	IP Filter double masks	<input checked="" type="checkbox"/>
NAT	Port forwarding, 1to1, outgoing,	<input checked="" type="checkbox"/>
Routage	Statique	<input checked="" type="checkbox"/>
Haute disponibilité	CARP	<input checked="" type="checkbox"/>
DHCP	V4/V6	<input checked="" type="checkbox"/>
Interface	LAN, WAN, Bridge, GIF, GRE, LAGG, Loopback	<input checked="" type="checkbox"/>
Virtual IPs	Une adresse IP virtuelle	<input checked="" type="checkbox"/>
VLAN	Réseau local virtuel permet de définir un nouveau réseau au-dessus du réseau physique	<input checked="" type="checkbox"/>
VXLAN	Virtual Extensible LAN est une technologie de virtualisation réseau	<input checked="" type="checkbox"/>
DNS	Unbound DNS	<input checked="" type="checkbox"/>

SECURITE		
Pare-feu	L4	<input checked="" type="checkbox"/>
VPN de site à site	IPsec	<input checked="" type="checkbox"/>
VPN de Point à point (client-serveur)	OpenVPN	<input checked="" type="checkbox"/>
Proxy Web	Squid	<input checked="" type="checkbox"/>
IDS/IPS	Suricata	<input checked="" type="checkbox"/>
Antivirus	Clamav	<input checked="" type="checkbox"/>
Gestion des certificats	SSL & TLS	<input checked="" type="checkbox"/>
Authentification	LDAP/Radius	<input checked="" type="checkbox"/>
REPORTING		
Etat du Trafic	Netflow	<input checked="" type="checkbox"/>
Archivage des logs	Syslog	<input checked="" type="checkbox"/>
Journalisation	ELK	<input checked="" type="checkbox"/>
MONITORING		
Historique des connexions	Syslog	<input checked="" type="checkbox"/>
Notification des alertes et/ou événements	Suricata	<input checked="" type="checkbox"/>

➤ PAQUETS DE BASE

Paquet	Service	Description
OpenVPN	VPN	Solution d'un réseau privé virtuel pour assurer une connexion sécurisée entre un client et un serveur local.
Suricata	IDS	Un système de détection d'intrusion.
ClamAV	Antivirus	Moteur antivirus.
Flowd	Analyseur de trafic (Netflow)	Outil de surveillance des réseaux qui permet de collecter des informations sur les flux IP.
Squid	Proxy	Proxy de mise en cache HTTP.
Strongswan	IPSec	Solution VPN pour assurer une connexion sécurisée Site-to-site.

> ENVIRONNEMENT DE DÉVELOPPEMENT

Environnement de développement	Description
FreeBSD	Un système d'exploitation pour les plates-formes de type serveur.
PHP	Langage de script PHP.
Python	Langage de programmation orienté objet interprété.

> EXIGENCES MATÉRIELLES

Configuration	RAM	Processeur	Stockage
Raisonné	4 Go	Double coeur 1 GHz	40 Go
Recommandé	8 Go	Multicoeur 2 GHz	120 Go

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- A LCM & Keypads
- B LTE Kit
- C RJ45 Console
- D USB 3.0
- E 2x 10G SFP+
- F 8x GbE RJ45
- G NIC Module Slot
- H 2x PCIe*4 (Optional)
- I Fans
- J Power On/Off
- K Redundant PSU

> SPÉCIFICATIONS

Platform	
Form Factor	1U 19" Rackmount
Processor Options	AMD EPYC 3000 Series 4~8 Cores
CPU Socket	SP4r2
Chipset	SoC
Security Acceleration	10Gbps Encryption + 10Gbps Decryption
BIOS	AMI SPI Flash BIOS
System Memory	
Technology	DDR4 Up To 2666 MHz ECC/U/R DIMM
Max. Capacity	128GB
Socket	4 x 288-pin DIMM
Networking	
Ethernet Ports	8 x GbE RJ45 Intel® i350-AM4 2 x 10G SFP+
Bypass	3 x Pairs of Gen3
NIC Module Slot	1 (for 1 x PCIe*8 or 2 x PCIe*4)
LOM	
IO Interface	1 x RJ45 *Share with ETH0
OPMA Slot	Yes
I/O Interface	
Reset Button	1
LED	Power/Status/Storage
Power Button	1 x ATX Power Switch
Console	1 x RJ45
USB	2 x USB 3.0
LCD Module	1 x LCM, 4 x Keypads
Display	From OPMA Slot for VGA (Optional)
Power Input	AC Power Inlet on PSU

Storage	
HDD/SSD Support	2 x 2.5" Bays
Onboard Slots	1 x M.2 2242, 1 x Mini-PCle
Expansion	
LTE	1 x LTE Slot (Optional)
Mini-PCle	1 x Mini-PCle (for Wifi)
Miscellaneous	
Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	TPM 1.2/2.0
Cooling	
Processor	Passive CPU Heatsink
System	2 x Cooling Fans w/ Smart Fan
Environmental Parameters	
Temperature	0~40°C Operating -20~70°C Non-Operating
Humidity (RH)	5~90% Operating 5~95% Non-Operating
System Dimensions	
(WxDxH)	438 mm x 431 mm x 44 mm
Package Dimensions	
(WxDxH)	582 mm x 548 mm x 182 mm
Power	
Type / Watts	Redundant 300W Power Adapter
Input	100~240VAC@50~60Hz, 5~3A
Certification	
Approvals and Compliance	RoHS, CE/FCC, UL

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- A** Console
- B** 6 x RJ45
- C** 4 x 10G SFP+ or 4 x 25G SFP28 (By SKU)
- D** 4 x RJ45
- E** 1 x NIC Slot
- F** 2 x USB 3.0
- G** 1 x PCIe*8 & 1 x PCIe*16
- H** 4 x Fans
- I** Redundant PSUs
- J** On/Off Switch

> SPÉCIFICATIONS

Platform	
Form Factor	1U 19" Rackmount
Processor Options	Intel® Xeon® D2700 4~20 Cores
CPU Socket	1 x Onboard
Chipset	N/A
Security Acceleration	Intel® QuickAssist Technology (By SKU)
BIOS	AMI SPI Flash BIOS
System Memory	
Technology	DDR4 3200 MHz REG ECC Or Non-ECC UDIMM/RDIMM
Max. Capacity	256GB
Socket	4 x 288-pin DIMM
Networking	
Ethernet Ports	2 x GbE RJ45 Via I210-AT 4 x GbE RJ45 Via I350-AM4 4 x GbE RJ45 Via I350-AM4 4 x 10G SFP+ (Default) Or 4 x 25G SFP28 (By OEM Project)
Bypass	2 Pairs
NIC Module Slot	1
LOM	
IO Interface	1 x LOM For IPMI
OPMA Slot	Yes
I/O Interface	
Reset Button	1
LED	Power/Status/Storage
Power Button	1 x ATX Power Switch
Console	1 x RJ45
USB	2 x USB 3.0
LCD Module	N/A
Display	N/A
Power Input	AC Power Inlet on PSU

Storage	
HDD/SSD Support	N/A
Onboard Slots	2 x M.2 2280 1 x M.2 2242
Expansion	
PCIe	1 x Gen4 PCIe*8 & 1 x Gen4 PCIe*16
mini-PCIe	N/A
SIM Card Slot	N/A
Miscellaneous	
Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Yes
Cooling	
Processor	Passive CPU Heatsink
System	4 x Individual Cooling Fans With Smart Fan
Temperature	0~40°C Operating -20~70°C Non-Operating
Humidity (RH)	5~90% Operating 5~95% Non-Operating
System Dimensions	
(WxDxH)	438 x 44 x 321 mm
Weight	8.6 kg
Package Dimensions	
(WxDxH)	739 x 215 x 582 mm
Weight	15 kg
Power	
Type / Watts	300W 1+1 Redundant PSUs Or 350W Single PSU
Input	Redundant: AC 100~240V @50~60 Hz Single: AC 100~240V @47~63 Hz
Certification	
Approvals and Compliance	CE/FCC Class A, UL, RoHS

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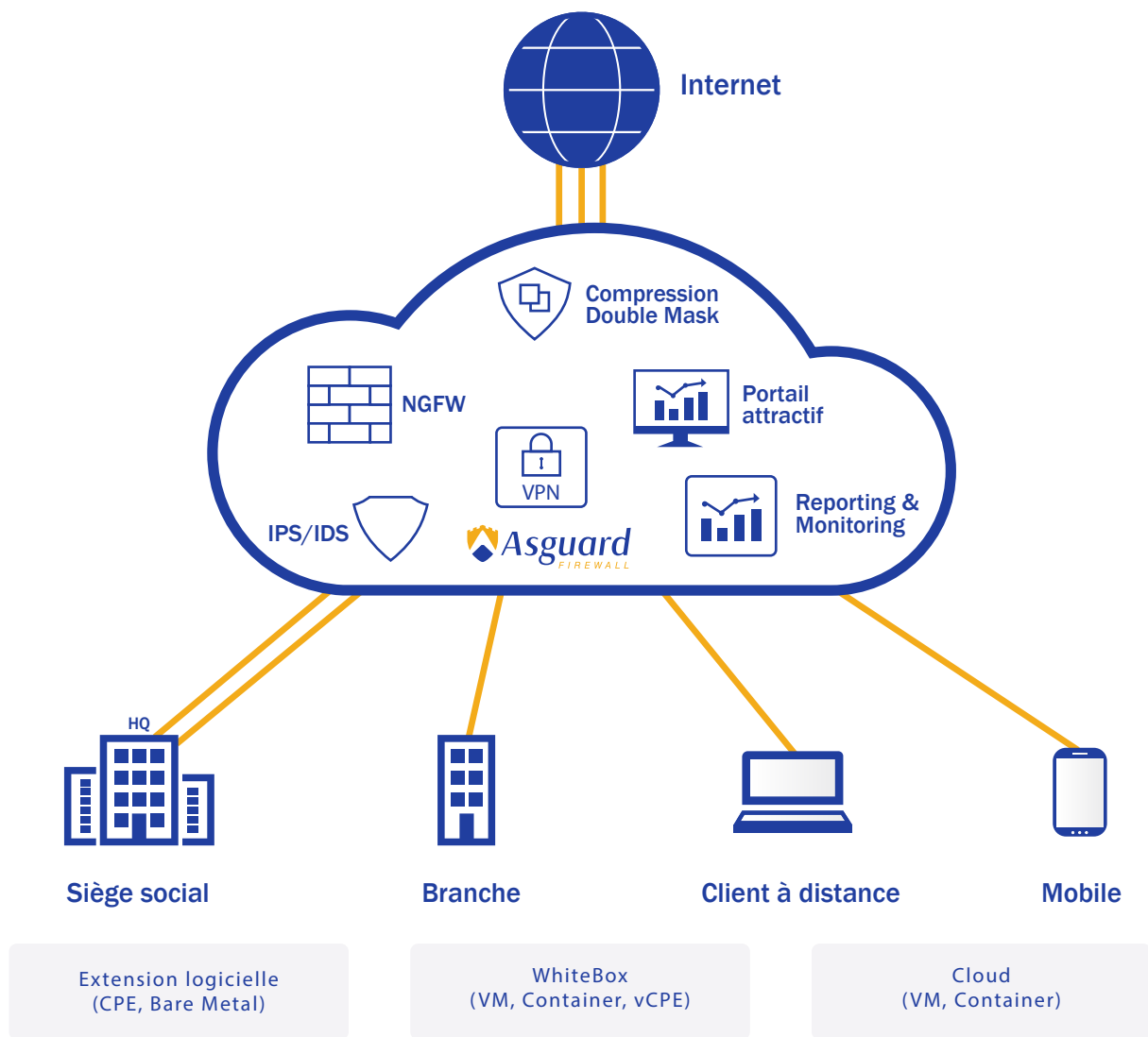
- A Power On/Off
- D Console
- G SIM Card Slot
- B Reset
- E USB 3.0/2.0
- H LED
- C DC Jack
- F 6x GbE RJ45

> SPÉCIFICATIONS

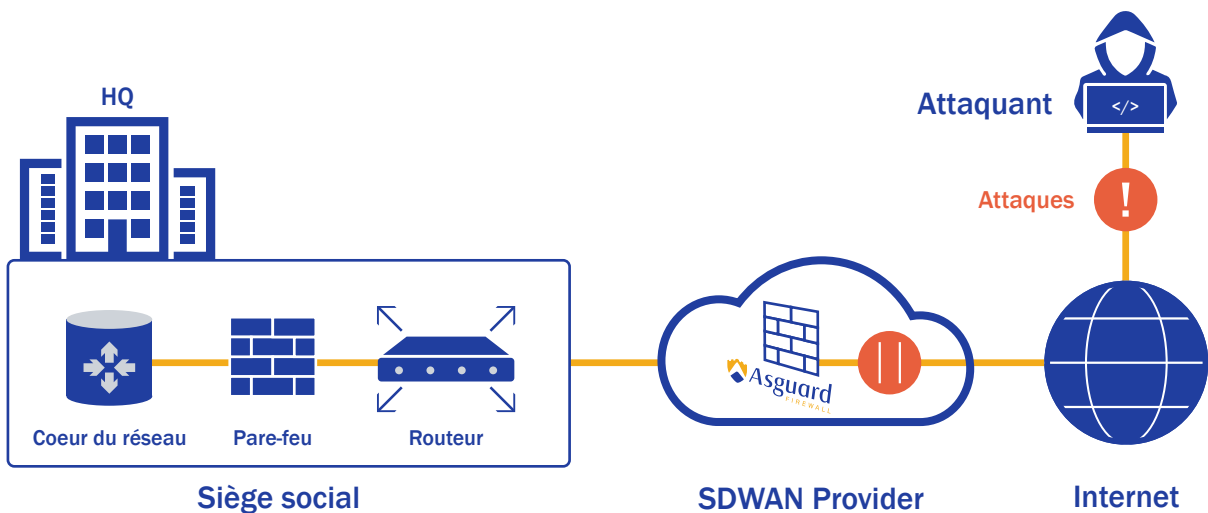
Platform	
Form Factor	Desktop
Processor Options	Intel® Atom® C3000 (Denverton and Denverton-R)
CPU Socket	Onboard
Chipset	SoC
Security Acceleration	Intel® QuickAssist Technology (by SKU)
BIOS	AMI SPI Flash BIOS
System Memory	
Technology	DDR4 2133/1866 MHz ECC/Non-ECC SODIMM (By SKU)
Max. Capacity	32GB
Socket	1 x 260-pin SODIMM
Networking	
Ethernet Ports	SKU A/E/F: 6 x GbE RJ45, (4 x GbE RJ45 Intel® SoC Integrated MAC + 2 x Intel i210-AT) SKU B: 6 x GbE RJ45, (4 x GbE RJ45 Intel® SoC Integrated MAC + 2 x Intel i211-AT) SKU C: 4 x GbE RJ45, (4 x GbE RJ45 Intel® SoC Integrated MAC) SKU D: 4 x GbE RJ45 + 2 x 1G SFP (4 x GbE RJ45 Intel® SoC Integrated MAC + 2 x Intel i210-IS)
Bypass	2 Pair of Gen3 (by SKU)
NIC Module Slot	N/A
LOM	
IO Interface	-
OPMA Slot	-
I/O Interface	
Reset Button	1
LED	Power/Status/Storage
Power Button	1
Console	1 x RJ45
USB	2 x USB 2.0 or 2 x USB 3.0 (by SKU)
LCD Module	N/A
Display	N/A
Power Input	1 x DC Jack

Storage	
HDD/SSD Support	1 x 2.5" Bay (Optional)
Onboard	1 x EMMC 8GB (SKU A/B/C/D)
Expansion	
PCIe	N/A
Mini-PCIe	1 x Mini-PCIe (PCIe/USB2.0) 1 x M.2 2280/2242 (SATA3.0) 1 x M.2 3042 (USB3.0)
SIM Card Slot	1 x Nano SIM for M.2
Miscellaneous	
Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	TPM 2.0
Cooling	
Processor	Passive CPU Heatsink
System	1 x Cooling Fan w/ Smart Fan
Environmental Parameters	
Temperature	0~40°C Operating -20~70°C Non-Operating
Humidity (RH)	5~90% Operating 5~95% Non-Operating
System Dimensions	
(WxDxH)	231 x 200 x 44 mm
Weight	1.2 kg
Package Dimensions	
(WxDxH)	358 x 135 x 290 mm
Weight	2.75 kg
Power	
	12V 3.33A 40W

> ARCHITECTURE GLOBALE FONCTIONNELLE



> ARCHITECTURE OPERATIONNELLE





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