aethra
telecommunications®

Designed for the needs of Small and Medium Enterprises

Network virtualization is already a reality in the core of the network and can bring incredible advantages in developing new services when deployed at the customer premises.

Integrated Vplus with Bonding for 600Mbps Downstream Speeds and Optional LTE

Universal CPE solutions from Aethra Telecommunications are fully integrated devices offering fiber and VDSL2 fixed access together with embedded LTE, making them the perfect device for any scenarios, including SD-WAN applications.

SOLUTION BRIEF

Aethra Telecommunications®
NFV / SDN Universal CPE.

NFV / SDN Universal CPE Solutions for SME

Network Functions Virtualization and Software Defined Networking are redefining the way we think about next generation networks.
Aethra Telecommunications Universal CPE solutions are fully embedded access devices developed to help bring virtualization to small and medium enterprises.

Fully Intel Based x86 Compute Power

All the solutions are based on Intel x86 architecture, with 2, 4 and up to 8 cores to guarantee the maximum flexibility and the best performances for the most demanding applications.

Up to Two Third Party Applications

Universal CPE solutions from Aethra Telecommunications are engineered to host up to two different Virtual Network Funtions (VNFs) in the service chain without impacting the routing capabilities.

Universal CPE is an innovative concept that simplifies the deployment and installation of new services requested by the customer.

Before uCPE and NFV, a customer request for a new service (such as a firewall) meant for the CSP the need to install a new hardware at the customer site, with higher costs and longer times to go "live".

With uCPE, the hardware already present in the customer site (the access router) is capable to host virtual functions that can be installed remotely and automatically. When the customer orders a new service in the CSP portal, the new virtual function is installed and activated automatically by the network itself. Application scenarios include virtual security (as firewalls, DPIs and IPSec), WAN accelerators, SD-WAN and a full set of enterprise grade software that can be hosted in the access router for unparalleled scalability.

VIRTUAL SECURITY
Universal CPEs from Aethra Telecommunications can host virtual editions of firewalls and DPIs in the same box, facilitating upselling, installation and maintenance while guaranteeing feature an performance parity.

uCPE	WAN	VDSL2 35b BONDING	LTE	LAN	WiFi b/g/n	WiFi ac	ISDN PRI	CPU[1]	CORES	MEMORY[2]	STORAGE	USB
XV8800WAC	2x GE / SFP	-	-	8x GE	✔	✔	-	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
XV8800LWAC	2x GE / SFP	-	✔	8x GE	✔	✔	-	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
XV8800VE2WAC	VDSL2 35b A / VDSL2 2x GE / SFP	✔	-	8x GE	✔	✔	-	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
XV8800VE2LWAC	VDSL2 35b A / VDSL2 2x GE / SFP	✔	✔	8x GE	✔	✔	-	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
XV8800PWAC	2x GE / SFP	_	-	8x GE	✔	✔	1	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
XV8800PLWAC	2x GE / SFP	_	✔	8x GE	✔	✔	1	Intel Atom C3000 Series	2/4/8	8GB	128GB	2
SV6000MNFVW	GbE / SFP	-	FACT. OPT.	4x GE 1+1 GE	✔	-	-	Intel Atom C2518 1.70GHz	4	8GB	64GB	1+1
SV6000MVE2NFVW	VDSL2 35b A / VDSL2 GbE / SFP	✔	FACT. OPT.	4x GE 1+1 GE	✔	-	-	Intel Atom C2518 1.70GHz	4	8GB	64GB	1+1

NOTES

[1] Different CPU configurations are available upon request. Please contact your sales representative.

[2] ECC option available upon request. Please contact your sales representative.

VIRTUAL WAN OPTIMIZATION / ACCELERATION

Increasing WAN efficiencies through WAN optimization is as well one of the most requested applications in business networks, in order to enhance delivery of business-critical applications, reduce latency, and improve IT control over the traffic.

SD-WAN

Software Defined WAN (SD-WAN) is always identified as the killer application for uCPE.
SD-WAN manages enterprise VPNs without the need of MPLS circuits and balances traffic between different fixed and mobile interfaces, enabling enterprises to add and configure sites in just a few clicks.

ENTERPRISE CLASS APPLICATIONS

Communications Service Providers can use this Universal CPEs to host several different types of Enterprise applications in an easy and flexible way, offering for example IP PBX, WiFi Captive Portal and many more (even on-demand) appllications, like Industry 4.0 and IoT Gateways.

Fig. 1: XV8800WAC / XV8800LWAC uCPE.

Fig. 2: XV8800VE2WAC / XV8800VE2LWAC uCPE with VDSL2 35b bonding.

Fig. 3: XV8800P1WAC / XV8800P1LWAC uCPE with ISDN PRI Voice Gateway.

Fig. 4: SV600MNFVW uCPE.

Fig. 5: SV6000MVE2NFVW uCPE with VDSL2 35b bonding.