

# AT&T Network Functions Virtualization simplifies network infrastructure



AT&T Network Functions Virtualization helps you manage your network infrastructure with **speed, flexibility, and simplicity.**

## Replace stacks of equipment with one device to create a virtualized level of network intelligence

Premises-based network infrastructure equipment has long consisted of single-purpose-built specialized appliances from different vendors. One vendor would deploy your routers, while others would provide your firewalls, SD-WAN, Visibility, or wireless LAN controllers.

But what if you could use one general-purpose appliance or a cloud-based solution to support all these various functions across your different sites and geographies? Putting two, three, four, or more network functions on a standard piece of hardware eliminates the need for stacks of proprietary equipment that require specialized IT skillsets to install, configure, and maintain. It may also reduce your capital expenditures, as well as your power and cooling requirements, leading to an improved total cost of ownership.

That's the purpose of Universal Customer Premises Equipment (uCPE) devices — the hardware foundation of AT&T Network Functions Virtualization. You can deploy a single AT&T-branded x86 server to mix and match a wide variety of AT&T-certified virtual network functions (VNFs) depending on the needs of your business at each site.

The platform is scalable and flexible, allowing you to future-proof your investment. If you need it to support different or additional virtual network functions down the road, it's just a matter of downloading them while using the existing hardware.

## Benefits

- Simplified hardware and cloud installations: can be mixed and matched across sites
- Scalable and operationally efficient
- Rapid on-boarding of new features and multi-environment deployments
- Multi-environment deployments (uCPE on premise, cloud, and colocation options)
- Reduces the need for proprietary network appliances and associated skillsets
- You can deploy, configure, and change virtual network functions at your sites quickly and often without hardware changes

This architecture is needed more than ever for organizations to support new initiatives at the lightning speeds required by today's agile business. You no longer have the luxury of taking months to complete IT and network deployments.

Talk to a business expert.  
833.789.0092

### AT&T uCPE device specifications

	AT&T U210	AT&T U410	AT&T U412	AT&T U800-S2_10G	AT&T U800-S3_10G
<b>CPU</b>	4-Core Intel Broadwell CE	6-Core Intel Broadwell Xeon	6-Core Intel Broadwell Xeon	Intel 12 Core SKYLAKE	Intel 16 Core SKYLAKE
<b>Total Virtual vCPUs</b>	8	12	12	24	32
<b>Total RAM (GB)</b>	16	16	32	64	128
<b>Total SSD Storage (GB)</b>	100	200	400	Internal 100 GB (2 SSD x 50G) External 800GB (SSD, 2 slot available for up to 1.6TB)	Internal 100 GB (2 SSD x 50G) External 800GB (SSD, 2 slot available for up to 1.6TB)
<b>Maximum # of VNFs</b>	2	3	3	12	12
<b>Virtual CPUs Available to VNFs</b>	4	8	8	16	24 "AttPerf-1" 26 - "flex"
<b>RAM (GB) Available to VNFs</b>	9	9	23	40	80
<b>SSD Storage (GB) Available to VNFs</b>	69	160	344	18 (internal) 697 (external)	18 (internal) 697 (external)
<b>Hypervisor</b>	KVM	KVM	KVM	KVM	KVM
<b>Operating System</b>	Wind River Linux 8	Wind River Linux 8	Wind River Linux 8	Wind River Linux 8	Wind River Linux 8
<b>SDN Orchestration</b>	Ericsson Orchestrator (EO)	Ericsson Orchestrator (EO)	Ericsson Orchestrator (EO)	Ericsson Orchestrator (EO)	Ericsson Orchestrator (EO)
<b>LAN Ports: RJ-45</b>	8	8	8	8 RJ-45 WAN/LAN	8 RJ-45 WAN/LAN
<b>WAN Ports: Choice of RJ-45 or SFP</b>	2 SFP	2 SFP	2 SFP	8 SFP+ WAN/LAN	8 SFP+ WAN/LAN
<b>Ethernet Management Port: RJ-45</b>	1	1	1	1	1
<b>Console Port: RJ-45</b>	1	1	1	1	1
<b>Power Supply (110/220 VAC)</b>	1	1	1	1 (optional 2)	1 (optional 2)
<b>Cooling Fans</b>	2	2	2	4	4
<b>Airflow</b>	Front-to-back (AFO) forced cooling	Front-to-back (AFO) forced cooling	Front-to-back (AFO) forced cooling	Front-to-back (AFO) forced cooling	Front-to-back (AFO) forced cooling

### Why AT&T

Technology is complex and changes quickly. It can be difficult to know if you're making the right communication and connectivity choices. That's why AT&T Business makes you and your business our top priority.

Contact your AT&T Business representative or [LEARN MORE HERE](#).