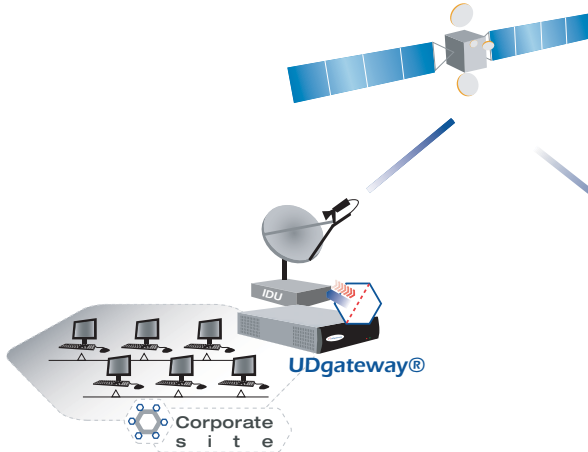


UDstation-Access

UDgateway Product Companion

- + Shared central appliance at hub
- + Premium IP service enabler
- + Easy integration within or near hub



Broadband Access Server

- + Performance enhancer server
- + Central security control
- + IP bandwidth saving



UDstation-Access

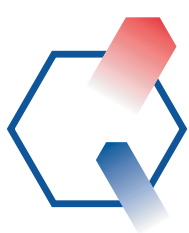
01 Description

The **UDstation@-Access** is a central appliance located at the satellite hub. It is the key product companion for the UDgateways@ located at the end-customer sites delivering enhanced broadband Internet access over two-way satellite systems. This appliance is shared by all the connected UDgateways@ and provides the necessary server side/hub elements for full functionality.

Thanks to the **UDstation@-Access** appliance, in conjunction with the UDgateway@ appliances, service providers can provide premium type services with key benefits for both the service provider and the end-customers. Amongst these are strong network security, on the fly IP traffic compression and valuable performance enhancement. The **UDstation@-Access** implements global performance enhancement through TCP acceleration and data compression, central security control and enforcement through site authentication and key distribution, as well as essential installed base administration tools such as the ability to carry out remote software upgrades.

The **UDstation@-Access** appliance is highly flexible ensuring easy integration with the service provider's hub and fully adapting to specific needs and constraints. The appliance can also be located close to the hub, for example in a public IP zone, in order to reduce the risk of impacting the existing satellite system. Through the use of the **UDstation@-Access** the service provider can choose which end-customer sites benefit from a premium service enabled by UDgateways@, and which do not, thus delivering two classes of service from a same hub.

Based on a powerful hardware platform, the **UDstation@-Access** appliance is designed for the satellite service provider. Each appliance can support up to a full satellite transponder capacity.



UDstation-Access

02 Features / Benefits

Performance enhancement

- + **Shared TCP acceleration server**
 - . Peer for all UDgateways located on end-customer site
 - . Deliver optimized end-user experience for every UDgateway equipped site
- + **Bandwidth saving**
 - . Allow all UDgateways to reduce TCP acknowledgements over satellite by regenerating ACKs transparently on the Internet side
 - . Compress/uncompress traffic over satellite to/from UDgateways
- + **Service management**
 - . SLA enforcement
 - . Online service monitoring

Central control

- + **Site authentication**
 - . Centrally manage access rights based on the UDgateway's digital certificates
 - . Strongly authenticate end-customer sites
- + **Satellite link encryption**
 - . Dynamically distribute traffic encryption keys
 - . Scramble satellite traffic to unauthorized third parties
- + **Software version distribution**
 - . Centrally manage software upgrade distribution to selected UDgateways
 - . Simplified installed based administration

03 Specifications

+ IP features

- . IP routing
- . Traffic sharing at uplink rate
- . TCP acceleration server
- . Central compression end-point
- . Link monitoring probe

+ Security features

- . Link encryption central end-point - IPsec with AES
- . Central site authentication management X.509 digital certificate
- . Dynamic key distribution management Multicast based

+ Integration

- . Interoperability with any IPE - IP encapsulator
- . Can be integrated in any public IP location at or near the hub
- . Can be inserted in-line to control all IP traffic

+ Administration features

- . Web-based administration
- . SNMP v2
- . Installed base software update server Multicast based

+ Hardware specifications

- . 2 Ethernet 10/100 BaseT
- . 3rd generation Intel® Processor
- . Hard Disk: 40 GB
- . Memory: 512 MB
- . Power supply: 250W - Autoswitch 100-240 VAC (47-63 Hz)
- . Weight: 44 lbs (20 kg)
- . Dimensions: 2U(H) x 17.7"(L) x 19"(W)
88 mm x 450 mm x 483 mm

+ Operating environment

- . Temperature: +15°C to 30°C
- . Humidity: 10 to 80%
- . Safety: EMC compliance, FCC, UL, CUL, CSA, BSMI
- . MTBF: 50.000 h at 25°C
- . Cooling fans