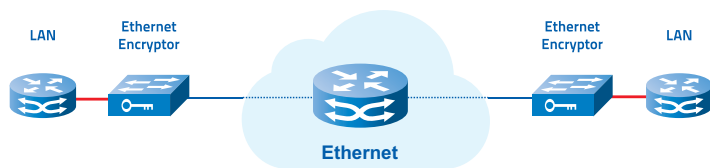


The **atmedia Encryptors** are safeguarding any layer 2 or layer 3 network communication reliably and without loss of quality. The area of application reaches from encryption of point-to-point connections to complex and large multipoint MPLS, VPLS or Metro Ethernet and storage networks. The systems are the first choice for the realization of highly available network scenarios where the communication between distributed sites or data centers has to be secured against interception and manipulation.

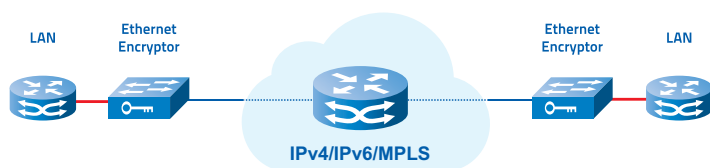
The atmedia Encryptors realize the network and encryption functionality with programmable FPGA hardware. All modules are completely developed and implemented by atmedia. A main feature is the encryption in combination with secure integrity protection for transmitted user data and network information (Ethernet and IP header). This protects the customer network against active and passive attacks since it realises a "perfect firewall".

## Application Scenarios

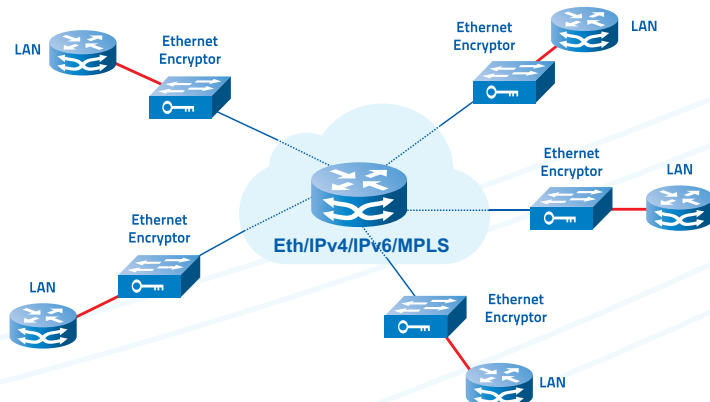
### Ethernet interconnect via layer 2 or layer 1



### Ethernet interconnect via layer 3 (IPv4 or IPv6 managed services)



### Multipoint any-to-any interconnect via layer 3 or layer 2



- Strongest available crypto technology (AES256-GCM, 512bit ECC)
- Integrity- and Replay-Protection
- Lowest encryption overhead possible for secure operation
- "Perfect Firewall"
- Hardware-based random key generation
- Tamper resistant chassis
- IP-Tunnel via arbitrary IPv4 and IPv6 networks
- Traffic Flow Security (optional)
- No change of network design needed
- No impact on existing redundancy schemes
- Autonomous and maintenance free operation
- Approved by the German BSI for classified data (VS-NfD, EU Restrict, NATO restricted)
- Complete development by atmedia
- Made in Germany

