Theory of operation:

The user's computer is connected to the Access Appliance through its Ethernet port. After processing by the digital section, the data from the user's computer is BPSK or QPSK modulated on a 810MHz carrier. The resulting upstream signal is amplified, filtered and then transmitted over the coaxial cable. The upstream symbol rate is 12MS/s. Simultaneously the access appliance receives and demodulates the downstream signal from coaXmedia's broadband gateway. The 22.5MS/s QPSK downstream signal is centered at 906MHz. The demodulated data is decoded by the Access appliance digital section and sent to the user's computer via the Ethernet interface.