

Gain Adjustments

The RF Gains are adjustable downwards in 1dB steps up to -15dB in order to compensate for the wide gain variations of the Fiber-Optic interfaces. This is to be done when the USU based system is installed, and whenever a USU or Head-End Module is replaced.

The Configuration Commands are as described in the previous section.

Uplink Gain:

The Uplink Gain is adjusted at the Head-End Module on an individual RF path basis. Generally speaking the individual Uplink RF Gains are all set to maximum, and the lowest gain path is noted. The other paths are then reduced to match this one. This will optimize / balance both gain and noise.

Downlink Gain:

The Downlink Gain is adjusted at the USU Remote Module on a one by one basis. The Gain is adjusted downwards to achieve a Head-End to Remote overall gain of about 15 to 20dB.