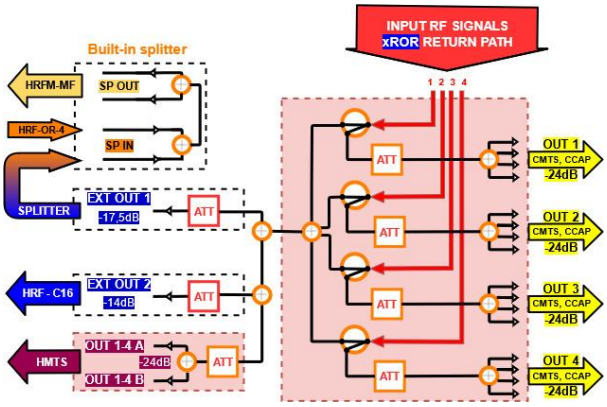
HRF-TYPE HEADEND UPSTREAM SIGNAL-MANAGERS

The HRF-ORx product-family realizes the connection between several QROR or DROR headend optical receivers and CMTS, monitoring gateway, and spectrum-analyzer system with optimal levels. Since the devices are made up of passive elements, they do not require a power supply, so they do not consume energy.

HRF-OR4 1U high usptream signal-level manager

The device is the first element of the upstream signal-organization – identical to the HRF-OR8 -, if the network requires multilevel construction, but can be used as a stand-alone product. The HRF-OR4 provides opportunity to connect further signal-orgnanizers thanks to the summarized, high-leveled outputs.
The EXT1 summarized output -by using the built-in independent signal-level adapter- provides opportunity to connect further HRF-OR4 device, while the EXT2 (also summarized output, but high-level output) provides direct connection to the HRF-C16 active signal-organizer.



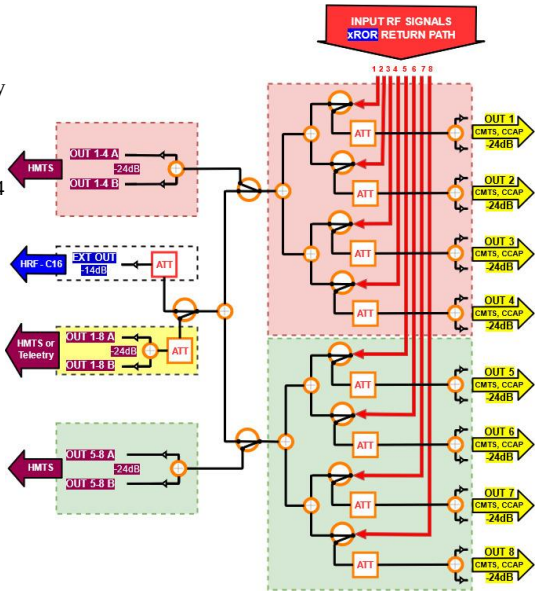
HRF-OR8 1U high upstream signal-level manager

Serving 8 optical segments is possible by Comtech's HRF-OR8 product. Its operation is very similar to HRF-OR4 cause provides the same ideal relative levels.

The further combining of combined signals arrive from 16 HRF-OR8 (or other) products is possible by an HRF-C16 active signal-combiber. The HRF-OR8 has a high-level output (-14 dB) for this purpose.

The HRF-OR4 can handle 4 -, while the HRF-OR8 can handle 8 upstreams, but 512 upstreams are possible by using the HRF-C16 singal-combiner.





HRF-C16 1U high upstream manager

128 optical segments can be managed in 17U by using 16 HRF-OR8 and only one HRF-C16 products. The HRF-C16 has an extension port, where a 4-way splitter can be connected, to manage maximum 512 optical segments capacity in case of the HRF-D downstream signal-orgnaizer.
The same ideal signal-level appers at the output of this device as on the HRF-C16 main outputs. 512 segments' space requirements is 68U plus a 4-way splitter. The system modular construction (i.e. the same input-output level relation) gives very high flexibility by handling mixed systems of strongly and slightly segmented areas as well as optical and coaxial segments.

The HRF-C16 provides the ideal signal-relations with amplifier-stages. The product's power consumption is 4W, which is provided by the HRF-PSC power supply.

