

Booth N° 8.A38

PRESS RELEASE: DVB-T GAP-FILLERS

BTESA's last generation of Gap-fillers had been successfully installed in TV transmission centers where no other Gap-Filler was able to work before.

Gap-Fillers (or iso-frequency repeater) are DVB-T/H repeaters in which the input and output channels are the same. They are used in SFN networks, or in MFN networks to improve the coverage in shadowed areas.

Since the power level of the transmitted signal is much higher than the power level of the received signal, and both signals use the same frequencies in the same location, the transmitted signal is viewed as an echo on the input, which generates oscillations that prevent the repeater from working. Devices which cancel this echo are needed when relatively high output power is demanded (more than 1Wrms)

BTESA introduces its last generation of Echo Cancellers with unmatched performance. Intensive research has been carried out in BTESA's dynamic R&D laboratory to release the most powerful adaptive Echo Canceller which can be found currently in the market.

It is able to **cancel Echoes up to 20dB higher than the Input power**. The minimum attenuation to main echo is **more than 35dB** (typically 40dB). That means that, for example, in case of having an Echo of 10dB over the signal at the input of the Gap-Filler, the Echo at the output will be at least 25dB lower than the Output signal.

The use of this Echo Canceller allows BTESA's Gap-Fillers to transmit up to **100Wrms** with a negligible degradation of the MER

Another outstanding characteristic is its **wide dynamic input range, from -75 dBm to -5 dBm** after the receiving antenna. This allows its use in different environments regarding Output Power, Echoes and out of band signals.

As all the other range of BTESA transmitters, Gap-Fillers can be remote controlled and supervised by PC, either alone or integrated in BTESA's supervision system.



3 channel / 5Wrms DVB-T Gap-Filler