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KTECH UNVEILS DISTRIBUTED DTV TRANSMISSION AND REGENERATIVE DTV TRANSLATOR TECHNOLOGIES

Distributed DTV transmission and Multiple Hops Translator technology introduced

Chatsworth, CA – March 31, 2003 – KTech Telecom, a leader in the DTV technology, today announced the introduction of two new technologies for DTV transmitters and DTV translators. Distributed transmission technology can be implemented in DTV transmitters, used to expand DTV coverage in the shadowed areas. It can also be used as an on-channel booster for DTV translators. Regenerative DTV translator for multiple hops technology can be used for generating fresh DTV signals eliminating the carrier phase noise, making it possible to have as many multiple hops as a station wants to greatly increase the DTV translator coverage area.

According to the President of the company, Steve Kuh, these two new technologies enhance the capabilities of both DTV transmitters and DTV translators. Using these 8-VSB transmission technologies, a station can broadcast its product to a wider audience at a very cost effective manner. “KTech’s innovative, cost conscience approach to DTV transmission and DTV translator technologies should help those small to medium TV stations who are in need to satisfy FCC requirement without breaking the bank,” said Romeo Castillo, KTech’s Sales Director.

Distributed DTV Transmitter and Translators for On-Channel Boosters

In KTech’s approach to build the Distributed DTV Transmitters and Translators, KTech employs GPS signals to synchronize all DTV Transmitters and Translators in a single channel.

The advantage of doing this approach is that all DTV Transmitters and Translators appear as if it is coming from one source from the view of a DTV receiver. This way, the additional synchronized DTV Transmitters and Translators will add to the system to provide additional coverage area and fill in a gap and shadowed areas. Another advantage of this approach is that this scheme will allow for on-channel boosters for DTV Translators. This is particularly attractive for DTV Translator application since it will enable efficient use of RF channels in the increasingly crowded UHF spectrum

space. KTech DTV Translators for On-Channel Boosters come in 1W, 5W, 10W, 50W and 100W versions.

Regenerative DTV Translators for Multiple Hops

In KTech's to build the Regenerative DTV Translators for Multiple Hops, KTech employs regenerative methods to recreate the original signal. Each DTV Translators are synchronized from its main DTV transmitter, and the signal carrier is regenerated in such a way that each DTV Translators start out with a fresh carrier source.

The advantage of doing this approach is that each DTV Translators do not add additional carrier phase noise each time it is hopped to a different channel. This way, unlimited multiple hops for DTV Translators can be realized. This technology is useful for those areas that require many hops to expand DTV coverage area. KTech Regenerative DTV Translators for Multiple Hops come in 1W, 5W, 10W, 50W and 100W versions.

Application for a DTV Translator

Using 8-VSB terrestrial signal as its source, DTV translator extends coverage of DTV by remodulating the signal to a different channel while updating PSIP information (Virtual Channel Table's (VCT) Station ID, Major and Minor Channel Numbers). Original 8-VSB terrestrial signal will be received by KTech's RF signal receiver, and then it will be remodulated to a new IF channel using the internal modulator. The upconverted RF output is then amplified and then goes through the DTV mask filter before the signal is sent to the antenna. Because the stream remains digital from reception to retransmission, station coverage is extended with no loss of quality.

About KTech Telecom

Since 1995, privately held KTech Telecom has been producing quality broadcast products such as an 8-VSB modulator, a Static PSIP Generator, a 100W - 3KW DTV Transmitter, an 8-VSB Translator, a DTV null packet generator, an 8-VSB Professional Receiver, and an MPEG2 transport stream generator/recorder. KTech representatives can be reached by phone at (818) 773-0333 or by e-mail at sales@ktechtelecom.com KTech's website is at : <http://www.ktechtelecom.com>