# Digital Terrestrial Television Conversion

Flexible, Scalable Solution for Analog-to-Digital

## Pre-Engineered Digital Terrestrial Television Solution

The Globecomm Pre-Engineered DTT System provides a very modular and flexible solution that gives analog-based terrestrial broadcast operators the opportunity to migrate to a digital platform quickly and cost-effectively. The Globecomm system adheres to published television standards and arrives at your site with much of the integration work completed, which speeds installation and deployment of a new digital terrestrial television system.

*FEATURES*

- Program Acquisition Subsystem
- Compression Subsystem
- Transmission Subsystem
- Confidence Monitoring
- Lifecycle Support

*BENEFITS*

- Supports Live and VOD
- Secure Digital Network Infrastructure
- Broadcasters Can Place Multiple Services in a Single Band
- Lower Operational Expenses
- Reduced Maintenance Costs
- Simplified Operation

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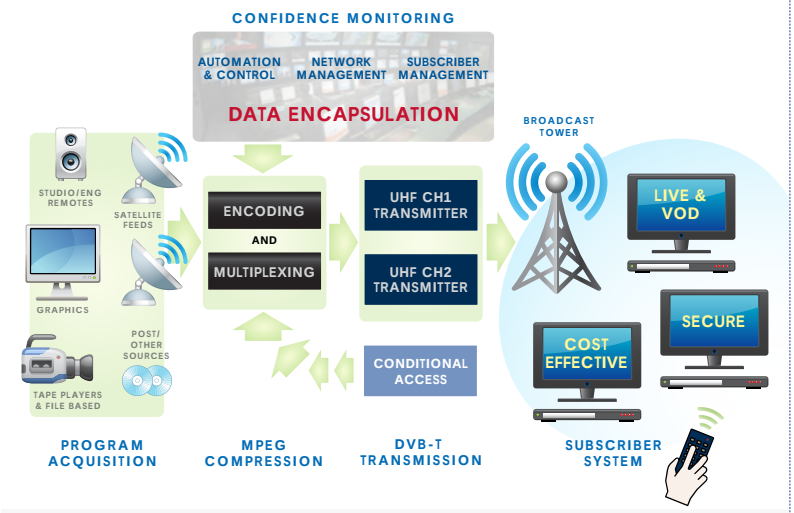


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Universal Digital Terrestrial Television Solution

## The Pre-Engineered DTT Conversion Solution

Globecomm offers broadcasters a pre-engineered, fully-tested, configurable system for analog-to-digital conversion of terrestrial TV. The DTT Solution Kit makes it possible to upgrade analog terrestrial TV systems without major programming operation. As a leading technology integration company, Globecomm takes end-to-end responsibility from design configuration to installation, testing and lifecycle support.

## Program Acquisition Subsystem

Satellite TVRO antennas and fiber receivers are provided with distribution modules. Modular processing units are available to condition signal levels at entry point for contribution programs and other content acquisition.

## Compression Subsystem

Innovative MPEG 4 h.264 encoders and transport multi¬plexers with an associated Network Management System form part of the encoding and service provisioning. Data multiplexing for multimedia application such as Internet and/or Mobile TV ensembles can be incorporated if desired. Additionally, insertion of Conditional Access is available for TV programs requiring encryption.

## Transmission Subsystem

Prior to emission, modulator/exciters feed VHF or UHF power amplifiers and associated antennas for over-the-air transmission. The modulator/exciters are capable of providing the necessary waveforms for ASTC, DVB-T, ISDB-T and other systems regardless of the transmission media. Globecomm can also provide the necessary engineering to design Multiple Frequency and Single Frequency Networks.

## Confidence Monitoring

Broadcasters can monitor and control the entire system chain from acquisition to transmission using Globecomm's premier AxxSys Orion SNMP management platform. Globecomm can implement multi-point monitoring presentation with automatic notification of alarms and logging 24/7, including a Presentation Video Wall and QC Stations with IP proactive test tools and MPEG measurement units.

## Lifecycle Support

All Globecomm solutions are backed by our 24/7 NOC and technical support staff for the first two years of operation. During this time, Globecomm's NOC will monitor your TV stations and provide remote support plus mandatory site maintenance visits twice a year.

To learn more about DTTV Conversion Solutions, visit us at www.globecomm.com, email info@globecomm.com, or call us at 1-866-499-0223.

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