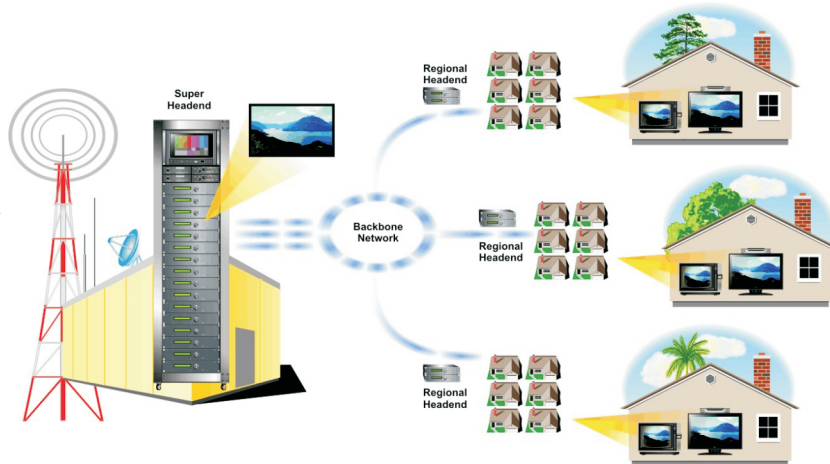


# Challenger<sup>TM</sup> DTS-C

## Digital CATV Transmission System

### Typical CATV Digital Network

500 to 100,000  
Subscribers  
Analog/Digital  
Deployment



The Challenger DTS-C allows cable operators to beat the competition from satellite providers!

As low as \$2,500 per program, versus \$6,000 to \$10,000 with other systems.

If you are an independent CATV or Broadband Operator and have the desire to operate a profitable CATV system with as few as 2,500 subscribers and unlimited growth rates, this system is for you!

In the space of a single six-foot rack, the Challenger provides up to 98 MPEG-2 encoders, 14 DVB compliant multiplexer scramblers, 14 modulators with agile output converters, a subscriber management system, an enhanced program guide, and Pay Per View.

The Challenger requires only 500 watts of power to deliver up to 98 programs of stereo video. The Challenger digital CATV headend system increases bandwidth capacity with proven MPEG-2 compression from Transparent Video Systems. The Challenger delivers an efficiency of 1 MHz per program – for up to 98 programs in under 100 MHz of RF bandwidth – utilizing your existing analog program sources and equipment. No plant expansions or additional personnel are required to improve CATV system performance.

Compact size will fit in existing headend

systems without additional space or expense.  
**Bolster Revenue AND Security**

The Challenger's state of the art Scrambling and Subscriber Management package allows operators to recoup and retain revenue by eliminating ALL program theft. Technicians no longer need to be dispatched to terminate service or audit the system. The Challenger's Subscriber Management system allows these tasks to be performed easily and reliably from the office.

The Challenger's Electronic Program Guide feature allows customers to scan listings onscreen for the programs and channels they want to watch.

### Win Back DBS Subscribers

The Challenger provides an affordable yet extremely powerful end-to-end solution for winning back DBS subscribers with a greater variety of programming. Increase your profit margin with vastly greater signal efficiency and signal integrity, while completely eliminating program theft.

## Feature and Benefits

- DVD Quality Video with stereo audio!
- Only 1 MHz per program (i.e., 100 programs = 100 MHz)!
- Deliver more channels with affordable investment!
- Increase profits and eliminate signal theft!
- Includes EAS and closed captioning!

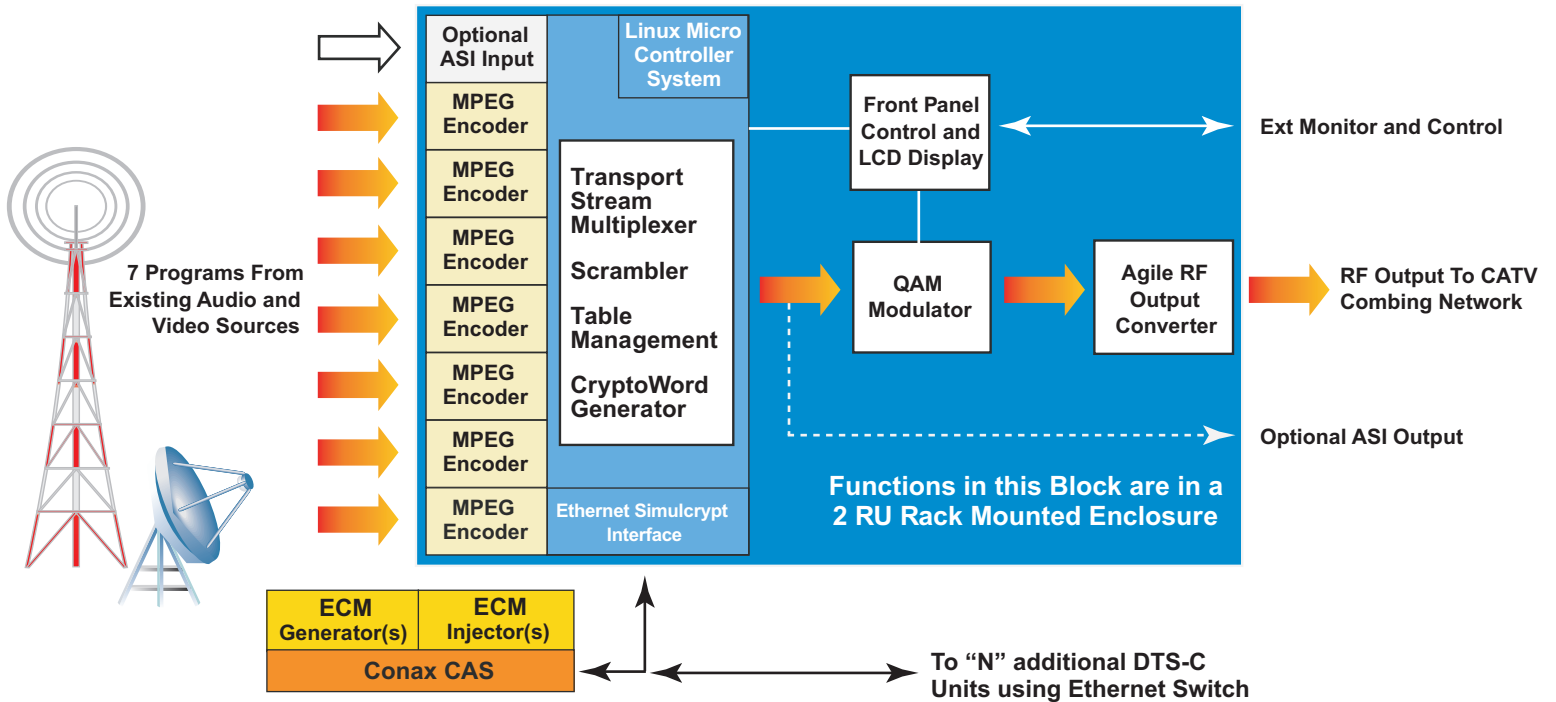
## Applications

- CATV, SMATV, MDU
- Local Broadcast HD and SD reception
- QAM grooming at HUB sites

ALL DIGITAL CATV NETWORK SOLUTION

# Challenger™ DTS-C

## Digital CATV Transmission System



The Challenger, Conditional Access and Subscriber Management systems are configured, racked and tested by Transparent Video technicians before shipping. At the CATV plant, analog program sources are looped through from the Challenger DTS-C to the analog modulators. Set-top boxes are deployed for onsite testing, then delivered to customers.

### MORE PROGRAMS, LESS BANDWIDTH

- ☑ 1 MHz per program bandwidth
- ☑ Dedicate saved bandwidth to new services
- ☑ Smooth and seamless transition for analog to digital
- ☑ Only 500 watts of power
- ☑ Fully digital system requires only 26dB S/N into the set-top box
- ☑ Reduce programming costs
- ☑ Win back customers and eliminate churn
- ☑ Works with multiple CAS and STB vendors
- ☑ Fully compliant with worldwide DVB standards

#### Subscriber Set-Top Boxes End to End Solution

Less than \$80 per unit from multiple partners. High quality, feature-rich set-top box solutions are available from Transparent Video featuring secure DVB scrambling and smart cards, offering a dynamic range of over 40db and delivering either standard or high-definition signals. Conforms with recognized international standards. Multiple licensed manufacturers. Designed for easy installation by subscribers.