



Customer Products

Product Catalog

Subscriber Products Overview

Transmission Networks

Products Overview

Content Distribution Products

Overview

SciCare Broadband Services

Customer Self-Service

Distributors

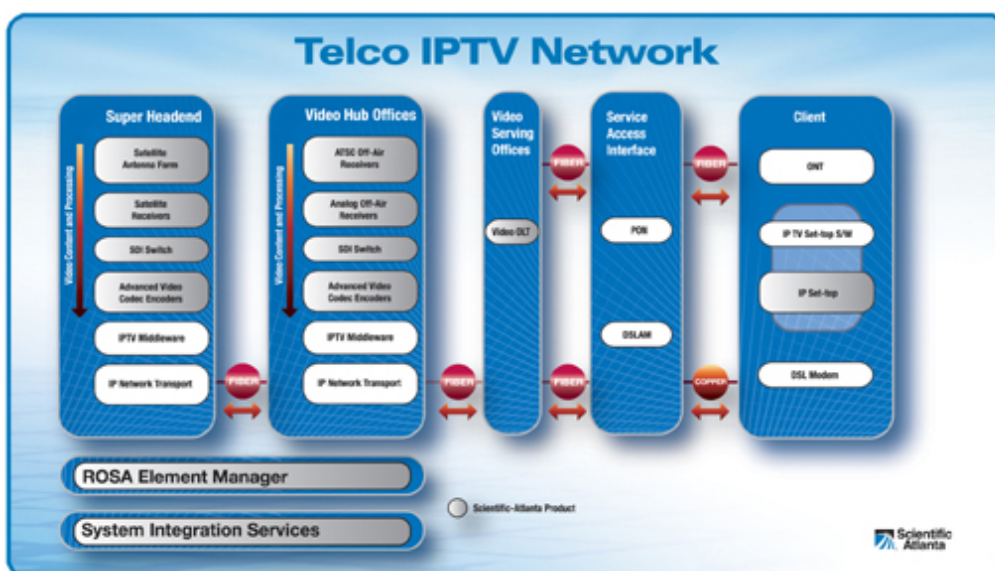
Training

Transmission Products

Advanced IPTV Headend

If IPTV is part of your triple play plans, you know how important it is to implement a powerful, flexible, headend solution. Your solution must be able to transmit the greatest number of channels and best image quality with the best possible bandwidth efficiency. Whether your networks are xDSL, FTTx and/or HFC, Scientific

Atlanta's IPTV headend solution has everything necessary to deliver:




Click on diagram for larger view

Meet your IPTV challenges:

- Build the right headend system for your business, whether your networks are xDSL, FTTx and/or HFC, whether you need a complete modular IPTV headend or individual open standards-based components that will integrate with third party middleware and other systems.
- Deliver more content and better quality images over less bandwidth with best-in-class MPEG4-10 (H.264) encoding, IntelliRate™ transrating and MPEG-2 encoding.
- Ensure greater flexibility and cost-effectiveness with dense signal reception and descrambling module, as well as intelligent Gigabit Ethernet IP streaming.

Other Links

- Maintain optimized performance with the ROSA™ monitoring and management system including easy integration to third party middleware systems.

- [Read more](#) about the IPTV headend solution 
- [IPTV Set-Tops](#)
- [IPTV Platform](#)
- [SciCare Integration Services](#) for Telecom Operator
- [SciCare IPTV Training Services](#)

Key components in the IPTV headend solution:

- [D9655™ IP Streamer and Processor with IntelliRate transrating loop](#)
- [D9034 Encoder](#)
- [D9054 HDTV Encoder](#)
- [D9032™ MPEG-2 Encoder, upgradeable to MPEG4-10](#)
- [Galaxy™ Rack System with multiple receivers and descramblers](#)

D9034 Encoder

- MPEG-4 part 10 or optionally MPEG-2
- Pre-analysis with 3:2 pull-down inversion
- Adaptive motion compensated temporal filtering with PreSight*Plus* noise reduction
- ASI and IP streaming outputs
- Web-based GUI and SNMP management interface for interfacing to any Management System
- 1 RU, low power consumption, stackable
- Redundant power supply ensures uninterrupted operation if one power supply should fail
- Four audio channels as either embedded, analog or digital audio input
- Dolby®-Digital encoding, Dolby Digital pass-through or MPEG-1 Layer II audio
- Integrated Frame synchronizer with internal reference
- DVB VBI support



[Read more](#) 

D9054 HDTV Encoder

- Up to 20 Mbit/s MPEG-4part 10 [MP@L4](#) vi compression rate
- PreSight*Plus* Pre-analysis
- Single slice JD AVC encoder
- Closed Captioning support via SMPTE 334M
- HD-SDI embedded audio support
- 1080i and 720p support
- Dual power supply
- Four MPEG audio channels
- Dolby Digital passthrough support
- ASI and Dual IP outputs (10/100 Base-T)
- Multi service streaming IP output
- Dedicated Ethernet 10/100 Base-T interface for management and maintenance
- WEB based GUI
- SNMP management interface for interfacing to any SNMP-based Management System including ROSA Network Management System
- Two rack units high, space-efficient, stackable



[Read more](#) 

D9655 IP Streamer and Processor with IntelliRate transrating loop

- Up to 20 ASI inputs
- Processing and SPTS de-multiplexing – up to 600Mbit/s
- IntelliRate transrating (with looped Transis RateCompressor)
- Transport Stream Monitoring
- DVB simulcrypt Scrambling
- Gigabit Ethernet IP output



- Open interfaces for easy interfacing to 3rd party systems

[Read more](#) 

[\[key components\]](#)

Digital Content Manager (DCM)

- Stand-alone device, dedicated to high-performance transrating and rate limiting
- High processing power guarantees that every service gets attention it needs



[Read more](#) 

[\[key components\]](#)

D9032 MPEG-2 Encoder, upgradeable to MPEG4-10

- Advanced MPEG-2 Encoder
- IP streaming and ASI output
- DPI (Digital Program Insertion)
- SDI and Composite input incl. Built-in Frame-synchronizer
- PreSigh*Plus*[™] architecture with adaptive pre-filtering and pre-Analysis ("dual-pass")
- MPEG4-10 and HE-AAC through field-upgradeable HW Board



[Read more](#) 

[\[key components\]](#)

Galaxy Rack System with multiple receivers and descramblers:

- Titan MKII™ Satellite Receiver (QPSK)



- Atlas MKII™ Terrestrial Receiver (DVB-T)
- Spectra™ Cable Receiver (QAM)
- Neon™ Network Adapter (34/45Mbit/s)
- Axis™ Network Adapter (STM-1/SONET, ATM, PDH)
- Indus MKII™ DVB Multi-channel descrambler

[\[key components\]](#)