Scienta Media

Broadcasting
DVB - T/S/C
Terrestrial
Satellite
Cable

Scienta Octopus Multiplexer

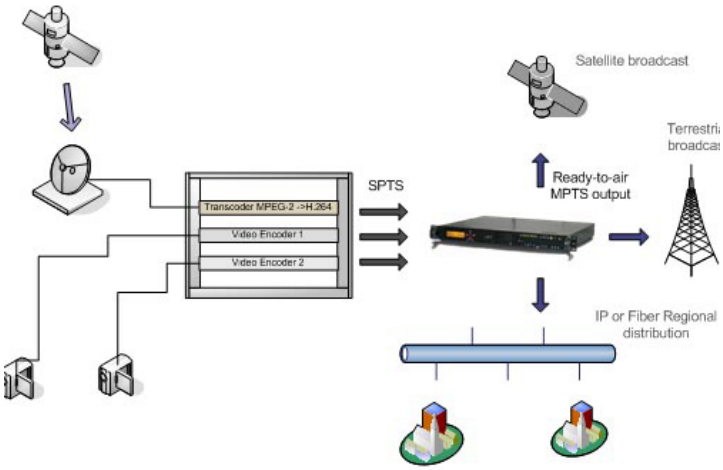
The Scienta Octopus Multiplexer is a professional Multi-Program Transport Stream (MPTS) Multiplexer.

Taking SPTS streams from encoders / transcoders as inputs, the Octopus Multiplexer produces DVB MPTS at the output. Input streams can be delivered by either IP or DVB-ASI interfaces.

The Octopus Multiplexer is an innovative, software product, based on the Scienta core multiplexing SDK. Octopus Multiplexer has very low system requirements: to serve a typical DVB-T network, Intel Atom N 455 processor is sufficient!

Why to choose Octopus Multiplexer?

High stability and robustness
Strict compliance to the TS specification
"Virtual multiplexing" technology: deploy multiple Octopus instances within one hardware unit to save money and space
Highest performance - tens of TV channels being processed, even by Intel Atom CPU!
Friendly, intuitive remote WEB control
SNMPv2 management protocol
Instant support
Flexible design



Typical Applications

Satellite broadcasts (DVB-S)
Terrestrial broadcasts (DVB-T)
Metro links
- point-to-point delivery of video streams (city - to -city, aggregation point - distribution point, etc.)

Advanced Features

PSI/SI generation, processing and insertion
PAT / PMT
DVB-S/T/C SI: NIT, TDT, SDT, EIT, BAT
Automatic PID-conflict resolution
Service filtering / PID filtering, PID re-mapping
PCR de-jittering
Self-monitoring of CC errors by the input interfaces
Automatic input signal-loss detection and alarming

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Inputs

188-bytes Single-Program Transport Streams (SPTS) or Multi-Program Transport Streams (MPTS) input.
An input TS may contain H.264 (HD/SD), MPEG-2, MPEG-4, VC-1 video, MPEG Audio, AAC, AC-3, DVB-teletext, user-defined private data, etc.
Interfaces:

- DVB-ASI
- IP
- Protocols: UDP Broadcast, Unicast or Multicast

Supported Standards

ISO/IEC 13818-1: Transport Streams
DVB-S/T/C due to ETSI EN 300-468
(Specification for Service Information (SI) in DVB systems)
Output is compliant to ETSI TR 101 290
(Measurement guidelines for DVB systems), 3 levels.

Monitoring and Control

Native WEB-interface
SNMPv2 protocol

Outputs

188-byte ISO 13818-1 Multi-Program Transport Stream or DVB MPTS.
Interfaces:

- DVB-ASI
- IP
- Protocols: UDP Broadcast, Unicast or Multicast

Up to 120 Mbps per single output (can be parallel DVB-ASI and IP output simultaneously).

Features:

- Strict conformance to TS ISO specs;
- Low CPU requirements;
- Low delay processing: < 20 ms IN to OUT;
- Full DVB SI tables support;
- SI information adding / editing;
- DVB-ASI and IP in / out, any combination;

System Requirements:

Muxer Engine Requirements:

- OS: WinXP / Win7 / WinServer 2000 and higher
- CPU: 2x core 1.5 GHz min
- Memory: 50 MB base + 10 MB per input stream

WEB Interface Requirements:

- WinXP / Win7 / WinServer 2000 and higher
- ASP .NET
- .NET Framework 3.5

Web Control

To provide a comfortable management and administration of the Scienta Media products, we developed the WEB-based software remote interface.
The key advantage of it is the opportunity for our customers to start utilization of the products as rapid as possible.
It's very intuitive and needs minimum efforts to get it of use.

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