

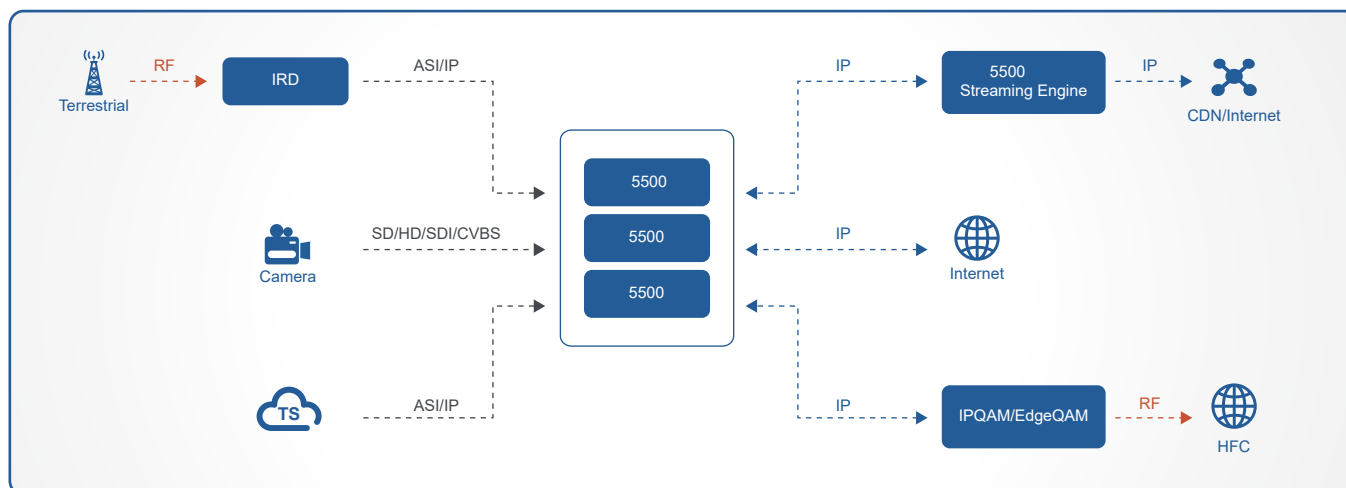
# Model x5500

Any Service Real-Time Encoding and Transcoding System



## Introduction

The TeleDelta x5500 is a high performance multi-function expandable real-time encoding and transcoding server system uncoupled from hardware which supports processing of multi-channel high quality HD, SD and lower bit-rate programs, whilst providing output of multi-screen, multi-format signals. The TeleDelta x5500 supports the most advanced encoding and transcoding standard and adopts the world leading compression algorithms to optimize the stream bit-rates in order to save bandwidth resources resulting in better quality content distribution in limited bandwidth environments. The x5500 is embedded with highly-effective transmission and management protocols, which helps to optimise video transmission and simplify server management and deployment.



## Advantage

- ▶ Uncoupled from hardware (License control)
- ▶ Adopts leading picture compression algorithms to achieve excellent image compression quality
- ▶ Supports HD, SD and low bit-rate, multi-resolution, multi-bitrate encoding
- ▶ Supports low delay, high quality real-time encoding
- ▶ Wide compatibility and scalability
- ▶ Simple and user-friendly operation interface
- ▶ Supports port-level and N+M device level backup
- ▶ Supports DRM

## Application

- ▶ Multi-screen application system
- ▶ Internet TV
- ▶ Hand-held terminal audio and video
- ▶ OTT
- ▶ Online video and portal website
- ▶ Video monitoring field
- ▶ Video and audio communication in telemedicine
- ▶ Video conference field

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## Specifications

Input
<ul style="list-style-type: none"> <li>Supports IP, DVB-ASI, SDI/HD-SDI, HDMI, CVBS, S-VIDEO input and analogue, digital (AES/EBU) audio as well as SDI embedded audio mode</li> </ul>
<ul style="list-style-type: none"> <li>Supports demultiplexing, inputting MPEG-2 TS and transcoding each channel respectively</li> </ul>
<ul style="list-style-type: none"> <li>Supports UDP multicast &amp; unicast, HTTP TS/FLV, RTMP, HLS, etc</li> </ul>
<ul style="list-style-type: none"> <li>Embedded dual Gigabit Ethernet interface, supports port-level backup</li> </ul>
Video
<ul style="list-style-type: none"> <li>Format: MPEG-2 MP@ML, MPEG-2 MP@HL, H.264BP, H.264MP, H.264HP, HEVC/H265, etc.</li> </ul>
<ul style="list-style-type: none"> <li>Aspect Ratio: 4:3, 16:9, 1:1, Auto</li> </ul>
<ul style="list-style-type: none"> <li>Resolution: QCIF~1080p, adjustable</li> </ul>
<ul style="list-style-type: none"> <li>Supports scene cut change detection</li> </ul>
<ul style="list-style-type: none"> <li>Video bit-rate is adjustable from 200k~50M</li> </ul>
<ul style="list-style-type: none"> <li>B frame is adjustable</li> </ul>
<ul style="list-style-type: none"> <li>GOP size is adjustable</li> </ul>
<ul style="list-style-type: none"> <li>Supports progressive and interlace; field order is adjustable</li> </ul>
<ul style="list-style-type: none"> <li>Supports resolution resizing</li> </ul>
<ul style="list-style-type: none"> <li>Supports CBR, VBR, ABR</li> </ul>
<ul style="list-style-type: none"> <li>Frame rate is adjustable</li> </ul>
<ul style="list-style-type: none"> <li>Supports de-interlace</li> </ul>
<ul style="list-style-type: none"> <li>Supports logo insertion</li> </ul>
N+M Backup
<ul style="list-style-type: none"> <li>Supports WMS-based N+M backup</li> </ul>
<ul style="list-style-type: none"> <li>Supports internal channel backup</li> </ul>
<ul style="list-style-type: none"> <li>Supports operational node replacement, upgrade and repair</li> </ul>
<ul style="list-style-type: none"> <li>Supports management port redundant backup</li> </ul>
<ul style="list-style-type: none"> <li>Reliable system level redundant backup</li> </ul>
<ul style="list-style-type: none"> <li>Supports cluster architecture with load-balancing</li> </ul>
Power Supply
<ul style="list-style-type: none"> <li>100~240V hot-swappable dual power supply</li> </ul>
Physical Size
<ul style="list-style-type: none"> <li>1RU chassis</li> </ul>
<ul style="list-style-type: none"> <li>Weight: About 19KG</li> </ul>
Environment Requirement
<ul style="list-style-type: none"> <li>Temperature: 10°C~35°C</li> </ul>
<ul style="list-style-type: none"> <li>Moisture: 10%~80%</li> </ul>

Output
<ul style="list-style-type: none"> <li>Supports IP and ASI output</li> </ul>
<ul style="list-style-type: none"> <li>Supports multi-channel backup output</li> </ul>
<ul style="list-style-type: none"> <li>Supports multi-screen, multi-terminal (iPhone, iPad, Android &amp; Symbian) output; supports different resolution, bit-rate, format output with one program; supports adaptive multiple bit-rate and format output</li> </ul>
<ul style="list-style-type: none"> <li>Supports various of stream protocol including UDP, RTP, RTSP, RTMP, HTTP (FLV &amp; F4V), HTTP (MMS), WebDAV, OTT [Apple HLS, Adobe HDS (future), Microsoft Smooth Streaming (future)]</li> </ul>
<ul style="list-style-type: none"> <li>Embedded dual Gigabit Ethernet output interface, supports port-level backup</li> </ul>
<ul style="list-style-type: none"> <li>Supports Apple HLS AES encryption and supports DRM</li> </ul>
Audio
<ul style="list-style-type: none"> <li>Supports up to 4 audio tracks</li> </ul>
<ul style="list-style-type: none"> <li>Encoding Format: MP2, MP3, AAC-LC, AAC-MAIN, HE-AAC V1, HE-AAC V2, AC3, AMR-NB/WB, WMA</li> </ul>
<ul style="list-style-type: none"> <li>Supports mono, stereo, 5.1 audio channel</li> </ul>
<ul style="list-style-type: none"> <li>Audio Bit-Rate: 8~448 kbps</li> </ul>
<ul style="list-style-type: none"> <li>Audio Sample Rate: 8~48 KHz</li> </ul>
<ul style="list-style-type: none"> <li>Audio normalization and volume is adjustable</li> </ul>
<ul style="list-style-type: none"> <li>Audio pass-through</li> </ul>
Subtitle
<ul style="list-style-type: none"> <li>Supports up to 4 subtitles output</li> </ul>
<ul style="list-style-type: none"> <li>Supports DVB subtitle pass-through, hard overlay</li> </ul>
<ul style="list-style-type: none"> <li>Supports Teletext pass-through</li> </ul>
<ul style="list-style-type: none"> <li>Supports Closed Caption pass-through</li> </ul>
<ul style="list-style-type: none"> <li>Supports HLS WebVTT subtitle</li> </ul>
Interface
<ul style="list-style-type: none"> <li>Supports 2 or more Gigabit Ethernet I/O</li> </ul>
<ul style="list-style-type: none"> <li>ASI (option)</li> </ul>
<ul style="list-style-type: none"> <li>SDI (option)</li> </ul>
<ul style="list-style-type: none"> <li>AV (option)</li> </ul>
<ul style="list-style-type: none"> <li>HDMI (option)</li> </ul>
Operation Management
<ul style="list-style-type: none"> <li>Supports web-based system management, parameter configuration, user password setting</li> </ul>
<ul style="list-style-type: none"> <li>Supports SNMP, HTTP REST API</li> </ul>
<ul style="list-style-type: none"> <li>Supports previewing input video</li> </ul>
<ul style="list-style-type: none"> <li>Supports remotely software upgrade, log and alarm query</li> </ul>
<ul style="list-style-type: none"> <li>Supports import and export the system configuration</li> </ul>
<ul style="list-style-type: none"> <li>Supports SNMP protocol</li> </ul>