TECHNICAL DATASHEET

H-SPARTAN-4 — 4-Channel HDMI/CVBS Network Encoder & IPTV Streamer

UDP/RTP (Unicast/Multicast) | Low-Latency HLS/HTTP/RTMP | USB TS Playback | CC (EIA-608)

Product Overview

The H-SPARTAN-4 is a professional 4-channel encoder designed for IPTV distribution over LAN and low-latency streaming over WAN. It accepts up to 4× HDMI and 4× CVBS inputs (any mix), encodes video in H.264, and outputs streams over UDP/RTP (Unicast/Multicast) as well as low-latency HLS/HTTP/RTMP. A USB port supports TS file playback and streaming directly from storage.

Key Features

- 4× HDMI inputs + 4× CVBS inputs (mix & match)
- H.264 video encoding; supports incoming video up to 1080p60
- Audio encoding: MPEG-1, AC-3, AAC
- Streaming: UDP/RTP Unicast & Multicast; Low-latency HLS, HTTP, RTMP (RTMP with key)
- CBR/VBR control modes; low latency & low bitrate operation
- Closed Caption support: EIA-608 (via baseband input)
- Front panel LCD + web GUI management; firmware updates via web
- Internal power supply; 1U rack mount design
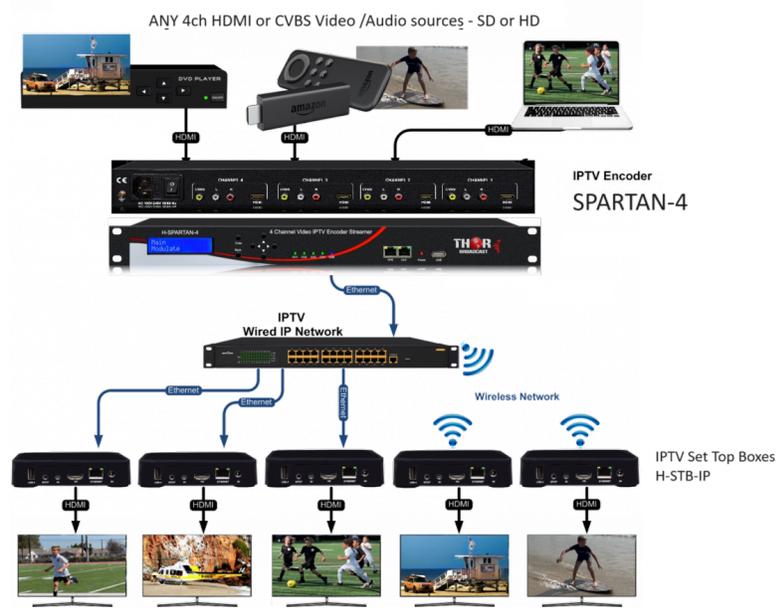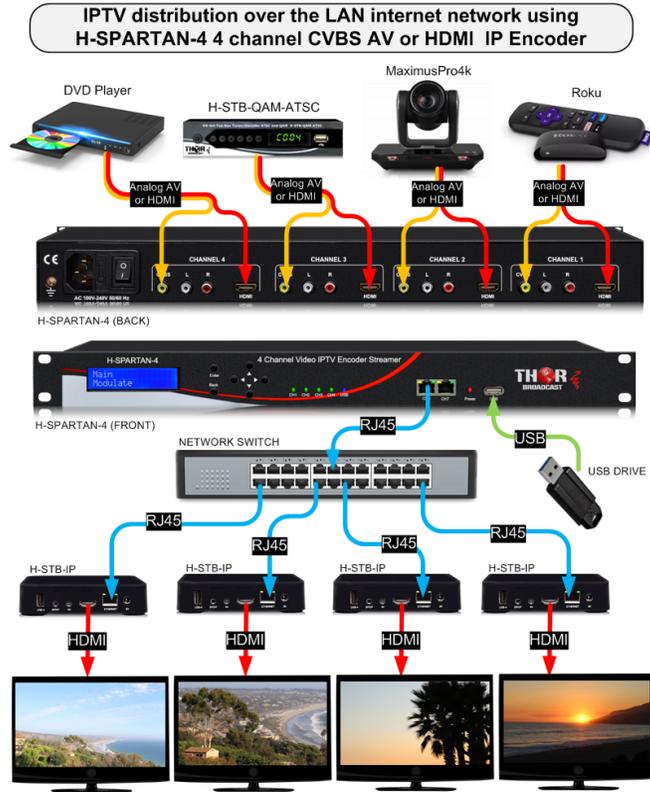- USB TS playback and TS-to-IP streaming

Technical Specifications

Parameter	Specification
Inputs	4× HDMI, 4× CVBS, 1× USB (TS playback/streaming)
IP Output	1× RJ45, 1Gbps (IP Streaming)
Streaming Protocols	UDP/RTP (Unicast/Multicast), HLS, HTTP, RTMP (low latency)
Video Encoding	H.264 AVC (HP@L4.0)
Supported Resolutions (Input)	1080p50/60, 1080i50/60, 720p50/60, 480i/576i
Max Output (typ.)	1080p30 (per published spec)
Video Bitrate	UDP/RTP: 2–14 Mbps; RTMP/HLS/HTTP: 2–8 Mbps (typical ranges)
Audio Encoding	MPEG-1 / AC-3 / AAC
Control	Front panel LCD with keys; Web NMS via RJ45
Closed Caption	EIA-608 (via baseband input)
Power	Internal PSU, AC 100–240V, 50/60Hz
Form Factor	1U rack mount

Ordering Information

Model: H-SPARTAN-4

Typical Application

IPTV distribution over the LAN internet network using
H-SPARTAN-4 4 channel CVBS AV or HDMI IP Encoder

ANY 4ch HDMI or CVBS Video /Audio sources - SD or HD

IPTV Encoder
SPARTAN-4

Product Page QR Code

https://thorbroadcast.com/product/4-channel-hdmi-cvbs-network-encoder-streamer-udp-rtp-unicast-multicast-8230-2.html