

IPTV Set-Top Box

Dual HDMI Output Multi-Viewer Display Platform

DATASHEET



2x HDMI
VIDEO OUTPUTS

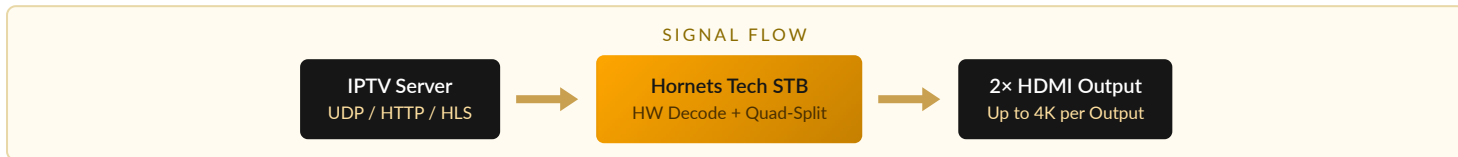
8 Streams
SIMULTANEOUS

4K
PER OUTPUT

Quad-Split
DISPLAY MODE

Web UI
MANAGEMENT

The Hornets Tech IPTV Set-Top Box is a professional dual-output display platform that receives IPTV streams and renders them on **2 independent HDMI outputs** at up to 4K resolution. Each output supports **full-screen or quad-split mode** (2x2 grid), displaying up to **8 simultaneous streams**. With an on-screen channel selection overlay, secure web dashboard, hardware-accelerated playback, and seamless IPTV server integration, it delivers a turnkey multi-viewer solution for broadcast and enterprise environments.



KEY FEATURES

- 2x independent HDMI outputs (up to 4K)
- Full-screen or quad-split (2x2) per output
- Up to 8 simultaneous streams displayed
- Hardware-accelerated video decoding
- On-screen transparent overlay for channel selection
- Remote controller support
- Per-tile independent stream assignment
- Automatic IPTV server channel discovery
- Secure web-based management dashboard
- Live thumbnail preview per stream
- System health monitoring (CPU, RAM, temp)
- Per-output and per-tile restart controls
- Persistent configuration across power cycles
- Automatic kiosk-mode boot (zero user interaction)
- Multi-protocol input: UDP, RTP, HTTP, RTSP
- Sub-2-second stream startup latency

PRODUCT



MANAGEMENT & CONTROL

Web Dashboard	Secure browser-based admin (login required)
Stream Config	Per-tile URL assignment via web UI
On-Screen Overlay	Transparent channel selector
Thumbnails	Live preview capture per stream
Health Monitor	CPU, RAM, disk, temperature, bandwidth
Output Control	Per-output & per-tile restart
Auto-Boot	Kiosk mode – streams on power-up
Persistence	Configuration survives power cycles

VIDEO OUTPUT

Outputs	2x HDMI (independent)
Resolution	Up to 3840 × 2160 (4K UHD)
Fallback	1920 × 1080 (Full HD)
Display Modes	Full-screen (1 stream) or Quad (4 streams)
Max Streams	8 total (4 per output in quad mode)
Audio	HDMI embedded audio per stream

STREAM INPUT

Protocols	UDP, RTP, HTTP, HTTPS, RTSP
Video Codec	H.264 (hardware-accelerated)
Audio Codec	AAC (MPEG-TS embedded)
Container	MPEG-TS
IPTV Server	Auto-discovery via HTTP API
Manual Config	Direct stream URL entry per tile
Startup Latency	< 2 seconds

TYPICAL APPLICATIONS

- Broadcast control room multi-viewer walls
- Sports bar & venue multi-screen display
- Hotel lobby & conference room monitoring
- Corporate AV & digital signage endpoints
- Security & surveillance monitoring station
- Trade show & exhibition live feeds
- Hospital & waiting area TV distribution

PHYSICAL & ENVIRONMENTAL

Form Factor	Compact fanless (or quiet-running PC)
Video Outputs	2x HDMI
Network	2x Gigabit Ethernet
Input Device	Remote controller
Power	20–50 W typical
Operating Temp	0 °C to +40 °C
Humidity	10–90 % RH, non-condensing
Compliance	CE, FCC Class A