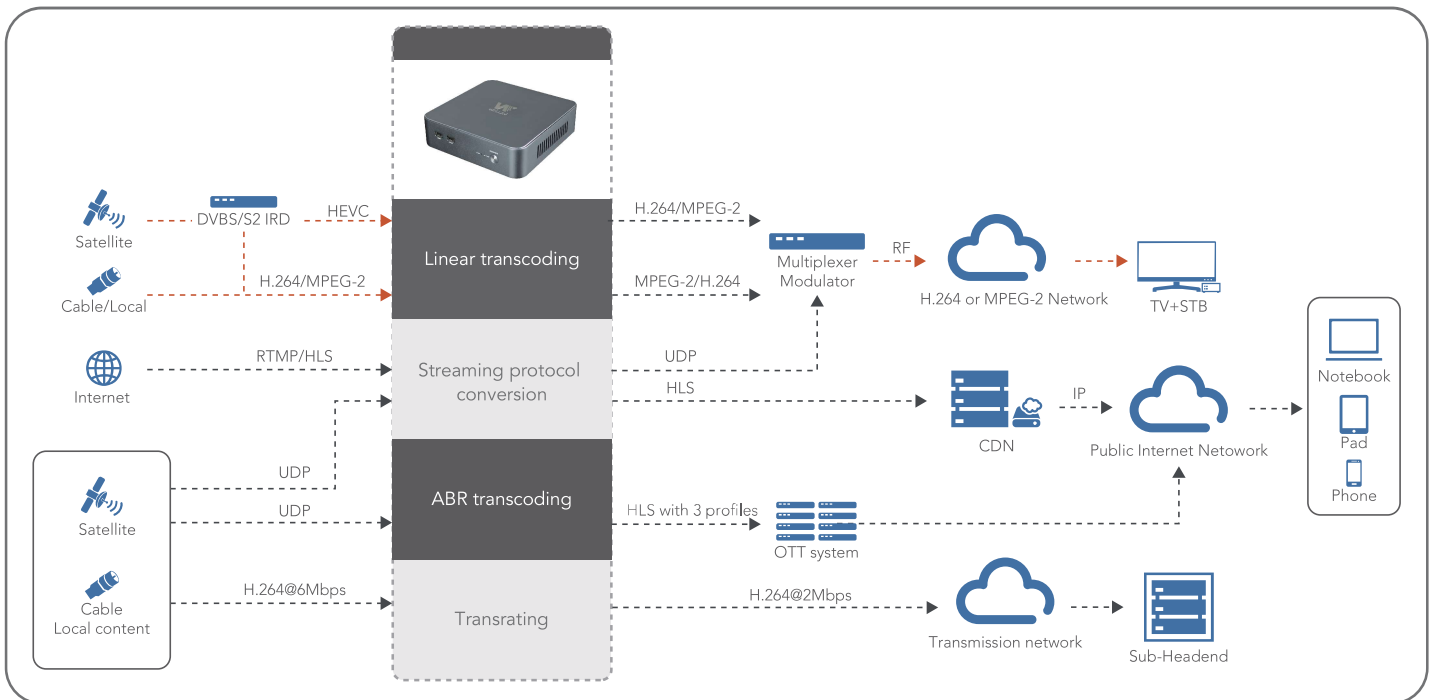# OMP500-MINI

Single Channel Linear Transcoder with optional OTT Packaging

WELLAV

OMP500-MINI is a small form factor appliance offering cost effective linear transcoding for a single service with resolution up to 1080p60. Using the versatile OMP500-MINI software, easily change codecs, scale resolution, or convert IP protocols of a single channel to maximize compatibility with existing networks. Featured by B frame and de-interlacing, it can also transcode video between progressive and interlaced format seamlessly in high quality while low bandwidth. The optional OTT capability provides up to three profiles for Adaptive Bit Rate (ABR) uplinks into CDN's or Origin servers for mobile delivery.

APPLICATION

4. Transcode and package up to three adaptive bit-rate (H.264) profiles for traditional OTT uplink into Origin

TECHNICAL SPECIFICATION

Input

Input	
Interface	RJ45 (GbE Port)
Protocols	UDP, RTMP, HLS
Video Codecs	MPEG-2 MP@ML/HL H.264 MP@L1.2/2.2/3.0/3.1, HP@L3.1/4.0/4.1 H.265 MP@MT L1/2/2.1/3/3.1/4/4.1, 8-bit

Video Resolutions	HD: 1920*1080p @60/59.94/50/30/29.97/25fps
	    1920*1080i @30/29.97/25fps
	    1280*720p @60/59.94/50/30/29.97/25fps
	SD: 720*576p @50/25fps
	    720*576i @25fps
	    720*480p @60/30/29.97fps
	    720*480i @30/29.97fps

Audio Codecs	MPEG1L2, HE-AAC (v1/v2), AAC-LC, AC3, E-AC3

Output

Output	
Interface	RJ45 (GbE Port)
Protocols	UDP, HLS
Video Codecs	H.264 MP@L1.2/2.2/3.0/3.1, HP@L3.1/4.0/4.1 MPEG-2 MP@HL/ML * (HEVC will be ready in Q3'20)

Video Resolutions	HD: 1920*1080p @60/59.94/50/30/29.97/25fps
	    1920*1080i @30/29.97/25fps
	    1280*720p @60/59.94/50/30/29.97/25fps
	SD: 720*576p @50/25fps
	    720*576i @25fps
	    720*480p @60/30/29.97fps
	    720*480i @30/29.97fps
	    For other resolutions, please contact us.

Bitrate Control	CBR, VBR
Video Bitrate	100Kbps~15Mbps (depending on combination of profile, level and resolution)
Audio codecs	MPEG1-LayerII, AAC-LC, HE-AAC (v1/v2) AC3 /E-AC3 Pass-through supported Up to 4 channels per video
DVB Subtitle	Support pass-through
Teletext	Support pass-through
Closed Caption	Support pass-through

Processing Capacity

Processing Capacity	
IPTV Mode	1 x HEVC/H.264/MPEG-2 HD (1080p60) to H.264/MPEG-2 HD (up to 1080p60)or 2 x HEVC/H.264/MPEG-2 HD (1080p30) to H.264/MPEG-2 HD (up to 1080p30)

OTT Mode	1 x HEVC/H.264/MPEG-2 HD (1080p60) to H.264 HD with up to 3 profiles:
	    Profile 1: up to 1080p60
	    Profile 2: up to 720p60
	    Profile 3: up to 576p25

* MPEG-2/H.264 -> HEVC (ready in Q3'20)	

Physical & Environment

Physical & Environment	
Interfaces	2 x RJ45 (GbE Port) 4 x USB 2.0, 2 x USB 3.0
	1 x VGA, DB15 1 x HDMI 1.4, type-A (Reserved for future)
	1 x Power button 1 x DC power connector

Dimensions (H x W x D)	Device: 52mm x 197mm x 197mm
	    2.05" × 7.76" × 7.76"
	Package: 90mm x 360mm x 260mm
	    3.54" × 14.17" × 10.24"

Weight	Approx. 1.0kg (2.2 lb)
Power	DC 12V / 5A
	Max. 60W
Operating Temperature	-10℃ ~ 60℃ (-14°F ~ 140°F)
Storage Temperature	-20℃ ~ 70℃ (-4°F ~ 158°F)

ORDER INFORMATION

Model	Description
OMP500-MINI	1CH Transcoder (linear transcoding, up to 1080p60)
OMP500-MINI-OPT	Upgrade license for OMP500-MINI-OPT (adding ABR option or allowing linear transcoding of 2xCH up to 1080p30)