

AVENIRMicro™



AVENIRMicro with USB Modem Module

- New integrated mobile hardware built on Qualcomm® Snapdragon™ CPU,
- HD-SDI & HDMI video capture integrated into mobile hardware,
- Small form factor, lightweight device weighing 440 grams,
- Supports additional modules:
 - USB Modem Module (shown here)
 - Embedded Modem Module
 - Battery Module
- Universal camera mount,
- Power consumption: 10W
- Bandwidth: 64Kbps – up to 18 Mbps

LDMP | ACTL3-AP



Powered by ACTL3-AP Codec + LDMP Reliable Video Transport

Powered by Streambox ACTL-3 Advanced Profile Codec & Streambox LDMP Network Bonding Technology

All Streambox products are powered by our proprietary codec: ACTL3-AP (Advanced Compression Technology Level 3 - Advanced Profile) and equipped with Streambox exclusive LDMP (Low Delay Multi-Path technology)

Deployment

The AVENIRMicro provides highly efficient encoding for HD and SD broadcasting seamlessly via Streambox Enterprise Server or Streambox Cloud Services for local, regional or worldwide deployments.

Infrastructure

The AVENIRMicro performs as a dedicated portable encoder for live video transmissions, bonding any available network connections (3G/4G, LTE, WiFi, LAN, BGAN, and USB mobile modems).

First/Last Mile

The AVENIRMicro bonds all available networks using Streambox exclusive LDMP technology to deliver quality video with low latency. Stream from the AVENIRMicro to any Streambox decoder, Enterprise Server or Streambox Cloud Service to receive, archive and route the video for playout.

AVENIRMicro Technical Specifications:

Video Formats	HD: 1080i/59.94, 1080i/50, 720p/59.94, 720p/50; SD: (NTSC): 525i/59.94, (PAL): 576i/50
Video Encoding	HD: 1920, 1440, 1280, 960x1080; 1280, 960, 800, 640x720; 1920x540; SD: 720, 528, 480, 352x480; 320x240; 720, 528, 480, 352x576; 320x288; 720x240; 720x288
Compression	Streambox ACTL3- AP
Audio Formats	AAC 1/2/4-channels, CELP, GSM 1-channel
Network Interfaces	1x Gigabit Ethernet 2x USB 3.0 2x WiFi: 1xStreaming, 1xControl (Hotspot) 802.11 a/b/g/n Freq./Power: 2.4 GHz/100 mW 5 GHz / 200 mW Freq./Power for Israel: 2.4 GHz/100 mW 5,15 - 5,35 GHz / 200 mW Support up to 6 external USB modems Modem module (option): 4 embedded 3G/4G/LTE modems up to 6x external USB modems
Network Protocol	LDMP 2.0, UDP, TCP
Forward Error Correction	Reed-solomon, Parity, Shuffle; adjustable from 0 to 50%
Video In	HD/SD-SDI and HDMI
Audio In	Embedded SDI Audio - 4ch / HDMI audio - 2ch
Video Post-Filtering	Interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
Metadata	End-user selectable: Title, Reporter, Location, Group
IFB Audio Support	IFB via USB audio adaptor. Up to 12 channels
Color Profile	4:2:0, 4:2:2
User Interface	Front LCD screen. 4 LED for status of video, network, streaming and alarm. Remote control via WiFi hotspot, Web browser via local IP and remotely via worldwide management server
GPS	Via GPS enabled modems and external GPS w/NMEA
Connectors	2x USB 3.0, 1x Micro USB 2.0, BNC, RJ-45, DC-Jack, HDMI-In, OTG (service) 30-pin extension connector running 4x USB 2.0 and I2V breakouts
Storage	Micro SD slot
Operation	Front panel buttons for unit information, Start/Stop & custom preset Web user interface for Automatic and Advanced presets selection Automatic presets: Low Delay, Talking Head and Reliable Advanced user selectable: sub second and 2 seconds up to 14 seconds Store&Forward to Enterprise Server, Cloud Server and S&F Decoder
Physical	Aluminum chasis: 126 mm W x 128 mm D x 30 mm H 4.96 in W x 5.03 in D x 1.81 in H - 440 g / 0.97 lb Top camera mount screw adapter (3/8"-16 to 1/4"-20)
Power	AC Adapter 100-240V 50/60Hz, DC 11-17V, Max. 65W Battery Module - 1-10 hrs (depending on battery type and usage), 7V - 17V (10W with WiFi or LAN connection, up to 17W with multiple modems)
Accessories	AC Adapter / DC Vehicle Adapter (optional) Canon LP-E6 hot-swappable battery module - 20Wh, ~ 2hrs (optional) Additional modules available