

## Sky Portable Transmitter and Receiver Link

Portable audio video transmitter for professional news gathering over mobile 3G/4G networks, fixed IP and WiFi.



Replace expensive satellite links with fixed and mobile Internet audio video links.



Sky Tx Single-Channel Transmitter Box and Sky Rx Single-Channel Receiver Box



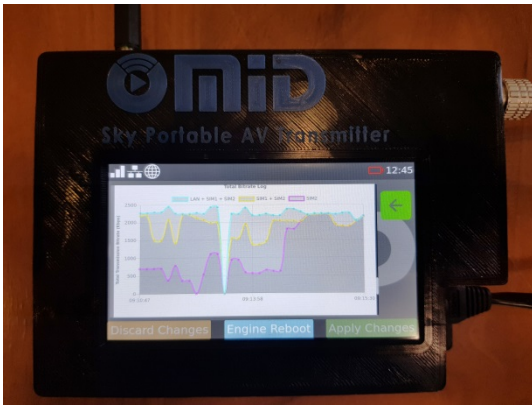


## Features

- Operates with both battery and AC power.
- Aggregates bandwidth from multiple SIM cards and LAN interfaces using advanced network bonding algorithms.
- Extra light easily carried in a waist pack
- No need for expensive batteries. Works with any power bank with minimum 2 Ampere DC output
- Easy management and control through touch screen display.
- Transmits Audio Video over both fixed and mobile IP networks
- Works with almost any HDMI or SDI input source such as camera, laptop, mixer, etc.
- Automatically adapts to bandwidth fluctuations.
- Automatic switching (fail-over) from LAN to SIM Card transmission and vice versa.
- Works about 1 hour or more on a full battery.
- Supports H.264/MPEG-4 AVC video encoding
- Optional SD- and HD-SDI input with automatic format detection
- Optional built-in camera and microphone
- Single-channel portable battery-operated Sky Tx receiver
- Multiple stream reception using four- or eight-channel Sky Rx fixed units in rack-mount boxes



## Network Channel Bonding and Fail-over



Sky Tx automatically aggregates the bandwidth of multiple SIM cards and the LAN network interface to maximize the video and audio quality that it sends to the destination. This allows the user to switch to other mobile operators when one mobile operator does not have network coverage in a location.

## Applications

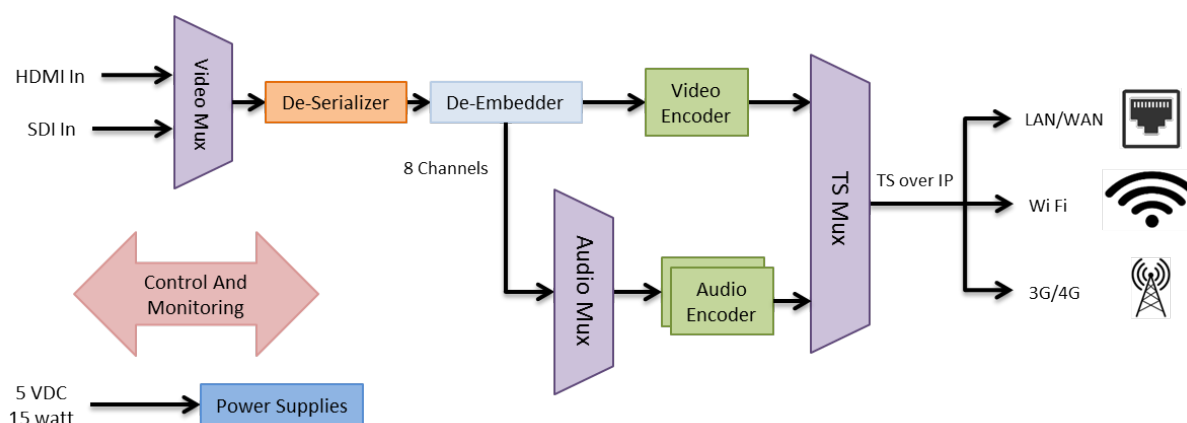
- IP SNG or Substitute for Satellite News Gathering (SNG)
- TelePresence and Video Conferencing
- Religious Events
- Conferences and Seminars
- Live OTT Streaming
- Streaming to YouTube, Facebook, Aparat, Instagram, etc.
- eLearning
- IPTV
- Telemedicine
- Digital Signage
- Remote Video Surveillance

## Related Products

- Vivid Professional Decoder (**MCD-2500**): Mutli-Channel Receiver for Sky Links



Application Block Diagram of Sky



## Technical Specifications

Input Video	<ul style="list-style-type: none"> <li>HD-SDI (SMPTE 292M), SD-SDI (SMPTE 259M) (Option SKY-SDI)</li> <li>HDMI (Option SKY-HDMI)</li> <li>Embedded Camera (Option SKY-CAM)</li> <li>Analog Video (Option SKY-CVBS)</li> </ul>
Input Audio	<ul style="list-style-type: none"> <li>Embedded Microphone (Option SKY-MIC)</li> <li>Embedded Audio from SDI Input (SMPTE 299, SMPTE 272) (Option SKY-SDIA)</li> <li>Embedded Audio from HDMI Input (Option SKY-HDMIA)</li> <li>Analog Audio (Option SKY-AAUD)</li> </ul>
Outputs	<ul style="list-style-type: none"> <li>Adaptive streaming over fixed and 3G/4G-LTE mobile networks (Option SKY-SIM) <ul style="list-style-type: none"> <li>Requires USB Dongle and SIM card with valid mobile data account which should be supplied by the customer.</li> <li>Requires valid IP address and compatible Sky Rx receiver at the receiving end</li> </ul> </li> </ul>
Video Encoding	<ul style="list-style-type: none"> <li>Output Encoded Video Rate Down to 256Kbps</li> <li>H.264/MPEG-4 AVC Encoding <ul style="list-style-type: none"> <li>Standard: ITU-T H.264, ISO/IEC 14496-10, MPEG-4 AVC</li> </ul> </li> </ul>
Audio Encoding	<ul style="list-style-type: none"> <li>AAC-LC, HE-AAC (AAC+), HE-AAC V2 (Option MCE-AAC) <ul style="list-style-type: none"> <li>Output Rates: 24, 32, 48, 56, 64 Kbps</li> </ul> </li> </ul>
Management and Control	<ul style="list-style-type: none"> <li>Monitoring and Control of System Parameters through touch screen easy-to-use control panel</li> </ul>
Physical Dimensions and Power	<ul style="list-style-type: none"> <li>Approximate Dimensions (W x D x H): 105x145x60 mm</li> <li>Approximate Weight: TX: 350 gr, RX: 250 gr</li> <li>Input Power 5VDC at approximately 3A</li> <li>Consumption: Up to 15 Watts</li> </ul>
Environmental Conditions	<ul style="list-style-type: none"> <li>Operating Temperature: 0°C to 50°C (32°F to 122°F)</li> <li>Operating Humidity: 10 to 75% non-Condensing</li> </ul>

## Ordering Information

Order Code	Description	Order Code	Description
SKY-TXBAS	Sky Transmit Base System	SKY-MIC	Embedded Microphone
SKY-SDI	SDI Input	SKY-SDIA	Embedded SDI Audio Input
SKY-HDMI	HDMI Input	SKY-HDMIA	Embedded HDMI Audio Input
SKY-CAM	Embedded Camera Input	SKY-AAUD	Analog Audio Input
SKY-CVBS	Analog Video Input	SKY-SIM	Streaming over one SIM card
SKY-WIFI	Streaming over Local WiFi	SKY-BAT	Battery Pack
SKY-SCRX	Sky Portable Single-Channel Receiver System	SKY-4CRX	Sky 4-Channel Receiver System
SKY-8CRX	Sky 8-Channel Receiver System		