

Portable Microwave

The portable microwave system is a split-type system made up of codec modulation and demodulation unit, radio-frequency amplification unit and antenna unit. Microwave equipment is using 8G microwave band, QPSK, 16QAM, ACM modulation and demodulation and advanced LDPC channel codec algorithm. The capacity of transmission is 10Mbps to 30Mbps. Encoding using advanced H.264 standards, you can carry out High and Standard Definition audio / video compression processing. The core chip is taken from NTT. The microwave equipment provides HD-SDI, HDMI, AES and analog audio interface, support a variety of audio and video combinations can be applied to outdoor video and audio wireless transmission, line of sight transmission, such as sports events, news reports, etc., to meet the diverse needs of customers.



Key Features >>>

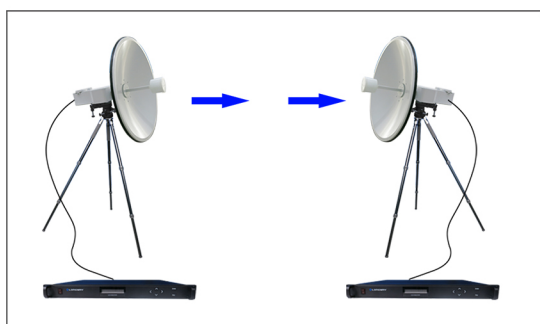
- Modulate QPSK 16QAM
- Frequency band 8GHz
- Adjustable bandwidth
- Adjust the power automatically
- Codec H.264 High 4:2:0/4:2:2 , High@Level4.1 , High@Level3.0
- Video interface HD/SD-SDI,HDMI
- Audio interface 1 x AES/EBU 1 x Analogue
- Built-in test signal , video color bar and audio 1KHz
- Portable box

Antennas >>>

- Type : 0.6m/0.9m
- Gain : 31dBi
- 3dB Width : 4.7°
- Voltage Standing Wave Ratio : 1.3
- Front-to-rear Ratio : 57dB
- Cross-Polarization : 30dB
- Flange Specifications : 1531EC-R84

RF parameters >>>

- Center Frequency : 8GHz
- Frequency Bandwidth : 120MHz
- Power Output : 20dBm/customization



Encoding and Modulation Unit >>>

Video Coding >>>

Chroma : 4:2:0(Optional 4:2:2)

Format : H.264

Profile : High/Main

Level : 4.1/4.0/3.2/3.0

Resolution : 1920x1080i@50/59.94/60

1280x720p@50/59.94/60

720x576i@50

720x480i@59.94

Bit Rate HD : 2 Mbps ~ 20Mbps

SD : 1 Mbps ~ 20Mbps

Interfaces : HD/SD-SDI : BNC x1 (0.8Vp-p , 75Ω)

HD/SD-HDMI : HDMI x1

Audio Coding >>>

Encoding Format : MPEG-1 Layer II

Coding Channel : 4 Channel (2 stereo)

Audio Mode : Stereo

Bit Rate : 128Kbps/256Kbps/384Kbps

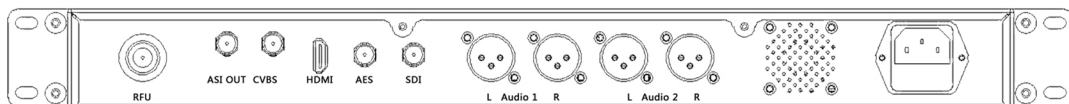
Interfaces :

SDI embedded audio : BNC x1 (4 Stereo)

HDMI embedded audio : HDMI x1 (4 Stereo)

AES/EBU audio : LEMO x1 (1Vp-p , 75Ω)

Analog input audio : XLR (Balance)



Decoding and Demodulation Unit >>>

Video Decoding >>>

Chroma : 4:2:0(Optional 4:2:2)

Format : H.264

Profile : High/Main

Level : 4.1/4.0/3.2/3.0

Resolution : 1920x1080i@50/59.94/60

1280x720p@50/59.94/60

720x576i@50

720x480i@59.94

Bit Rate :

HD : 2 Mbps ~ 20Mbps

SD : 1 Mbps ~ 20Mbps

Interfaces :

HD/SD-SDI : BNC x1 (0.8Vp-p , 75Ω)

HD/SD-HDMI : HDMI x1

Audio Decoding >>>

Decoding Format : MPEG-1 Layer II

Decoding Channel : 2 Channel (1 stereo)

Audio Mode : Stereo

Interfaces :

SDI embedded audio : BNC x1 (4 Stereo)

HDMI embedded audio : HDMI x1 (4 Stereo)

AES/EBU audio : BNC x1 (1Vp-p , 75Ω)

Analog input audio : XLR (Balance)

