MOD6000

IP to ISDB-T/DVB-T Modulator



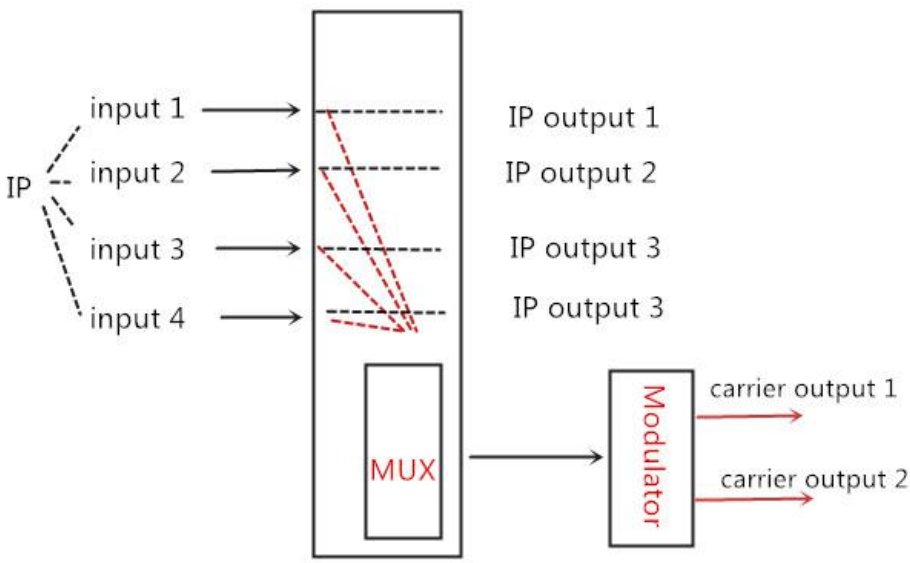
MOD6000 IP to ISDB-T/DVB-T modulator is a high performance modulator developed according to ARIB STD-831 standard. It provides a more powerful receiving ability to simultaneously process 4 IP streams inputting from encoder, multiplexer, gateway and etc head-end. It outputs digital RF after multiplexing process.

For management and operation, this device supports local and remote control through a web-based NMS system.

Features

- Complying with ARIB STD-831 standard
- 1000M IP port, 4 IP streams input
- Support 4 IP output
- Programs output through RF with multiplexing
- Dual adjacent carriers output
- RF Output frequency range: 30MHz ~ 1000MHz in 1 kHz step
- Support PID remapping
- LCD/keyboard and Web-based NMS operation

Principle Chart



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TECHNICAL SPECIFICATIONS

IP Input

	4* IP (MPTS/SPTS) input over UDP (Unitcast/Multicast) (1000M port based Ethernet)
	IGMP Snooping: v2, v3

IP Output

	4*IP output, one for one with the 4 IP input

RF Output

ISDB-T

Standard	ARIB STD-B31
Bandwidth	6M
Constellation	DQPSK, QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42dB
Output	30~1000MHz, 1KHz step
RF output level	-30 ~ -10dbm (77~97 dbμV) 0.1db step
Modular channel	2
Modular channel	2 1 RF port output

DVB-T

	Connector F-Type, 75 Ω
Modular channel	2 1 RF port output
	Mixer with 1 RF port input
RF output level	-30~-10dbm (81~97 dbμV) 0.1db step
RF frequency range	30 to 960 MHz, 1kHz steps
Output Return Loss	≥12dB
Restrain Carrier	≥58dB
Phase Noise	@1KHz ≥90dBc/Hz @10KHz ≥100dBc/Hz @100KHz ≥105dBc/Hz
SNR	≥50dB
Accuracy of center Frequency	±25KHz

Control

	LCD/keyboard operating and Web-based NMS support
	Ethernet software upgrading

Environment

Power	AC 110V±10%, 50/60Hz; or AC 220V±10%, 50/60Hz
Consumption	25W
Temperature	0 ~ 45℃(Operation); -20 ~ 80 ℃(Storage)
Dimension	482mm × 300mm × 44mm
Weight	2.3kg

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