

IMM-20i

20 Carriers ISDB-T Modulator



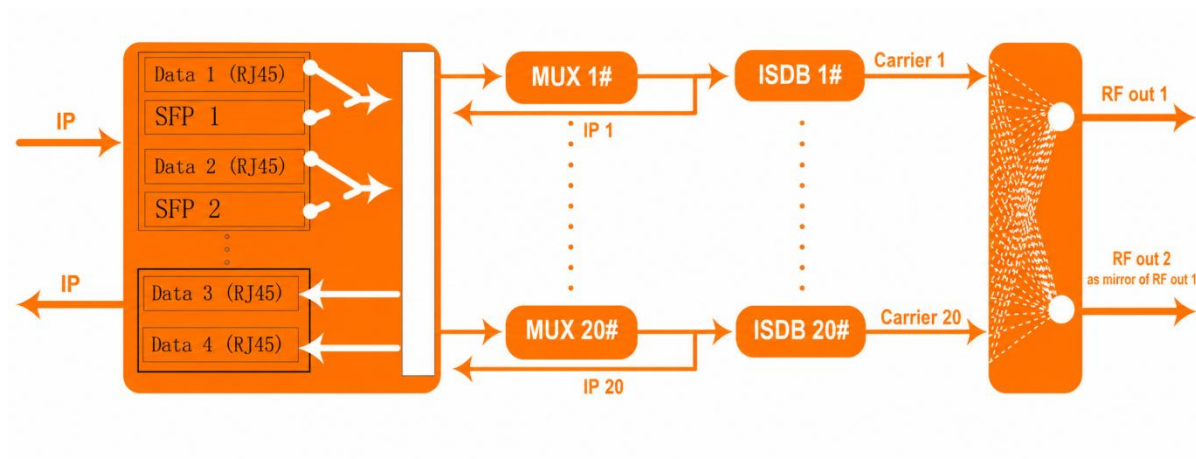
Product Overview

IMM-20i ISDB-T modulator is the latest generational Mux-modulating device. It converts IP streams to 20 ISDB-T non-adjacent carriers (50MHz~960MHz) output through RF interface. The device is also characterized with high integrated level, high performance and low cost which is adaptable to new generation DTV broadcasting system.

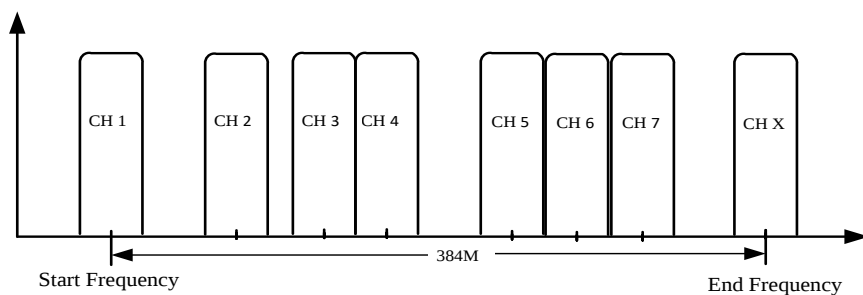
Key Features

- 6 GE ports (4*RJ45, 2*SFP), ports 1-2 for data input (RJ45/SFP), ports 3-4 for data output.
- Max 840Mbps for each GE input
- Supports accurate PCR adjusting
- Supports CA filtering, PID remapping and PSI/Slediting
- Supports up to 256 PIDS remapping per channel
- 20 IP output over UDP/RTP/RTSP
- 20 non-adjacent carriers output, compliant to ISDB-Tb (ARIB STD-B31)
- Web-based Network management

Inner Principle Chart (20 carriers out):



Carrier Setting Illustration



Specifications

Input	Input	Max 1024 IP input through data ports 1 & 2, 100/1000M Ethernet Ports (RJ45 and SFP interface alternative)
	Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
	Transmission Rate	Max 840Mbps for each GE input
Mux	Input Channel	1024 IP streams
	Output Channel	20
	Max PIDs	256 per channel
	Functions	PID remapping(auto/manually optional)
		PCR accurate adjusting

		PSI/SI table automatically generating
Modulation Parameters	Standard	ARIB STD-B31
	Bandwidth	6M
	Constellation	QPSK, 16QAM, 64QAM
	Guard Interval	1/32, 1/16, 1/8, 1/4
	Transmission Mode	2K, 4K, 8K
	Code rate	1/2, 2/3, 3/4, 5/6, 7/8
	MER	≥40dB
	RF frequency	50~960MHz, 1KHz step
	RF output level	-20dBm~+10dBm(87~117dbμV), 0.1dB stepping
	Output Channel	20 non-adjacent carriers output
RF Output	Interface	2 F type port mirror out, 75Ω impedance
	ACLR	-50 dBc
IP output	20 IP output over UDP/RTP/RTSP through data ports 3&4, unicast/multicast,100/1000M Ethernet Ports	
System	Web-based NMS management	
General	Dimensions	480mm×327mm×44.5mm (WxLxH)
	Weight	5.5kg
	Temperature	0~45°C(operation), -20~80°C(storage)
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz