

K IP to DVB-T (COFDM) Modulator

- 8 Channel DVB-T Modulator
- Up to 512 IP inputs over UDP/RTP and 6 ASI inputs
- 8 DVB-T carriers output (50~960 MHz)
- Simultaneous IP (MPTS) and ASI output as mirror of carriers



Product Overview

The BLANKOM HDC-5008T is an advanced, all-in-one DVB-T modulator designed for professional digital broadcasting environments.

It provides a maximum of 512 IP inputs via 4 GE/SFP ports, alongside 6 ASI inputs. Following the multiplexing and DVB-T modulation processes, the device delivers 8 (or 16) non-adjacent carriers spanning from 50MHz to 960MHz. Additionally, it provides 2 ASI outputs and 8 IP (MPTS) outputs acting as a direct mirror of the generated carriers.

Characterized by its highly integrated design, superior performance, and cost-effectiveness, the HDC-5008T is highly adaptable and perfectly suited for the new generation of DTV broadcasting systems

Key Features

- ✓ **High-Capacity Input:** Equipped with 4 GE/SFP ports supporting a maximum of 512 IP inputs.
- ✓ **Flexible Data Ports:** Data1 serves as a bi-directional port (max 512 IP in / 8 IP out). Data2, Data3, and Data4 ports are dedicated exclusively to input.
- ✓ **High Bandwidth:** Accommodates a maximum of 840Mbps transmission rate for each input.
- ✓ **Advanced Multiplexing:** Supports up to 256 PIDs remapping per channel, PSI/SI editing, and accurate PCR adjusting.
- ✓ **Excellent RF Performance:** Delivers broadcast-grade signal quality with a Modulation Error Ratio (MER) of ≥ 40 dB
- ✓ **Versatile Outputs:** Delivers 8 DVB-T non-adjacent carriers compliant with the ETSI EN300 744 standard.
- ✓ **Stream Mirrors:** Features 6 ASI inputs and 2 ASI outputs, along with 8 multiplexed TS over UDP/RTP/RTSP IP outputs.
- ✓ **User-Friendly Management:** Fully configurable via a Web-based Network management interface.

Applications

Digital Broadcasting Systems: Specifically engineered to be highly adaptable for newly generation DTV broadcasting systems.

IPTV & Cable Headends: Serves as a central hub for converting massive amounts of IP and ASI feeds into high-quality DVB-T RF signals for extensive distribution networks.

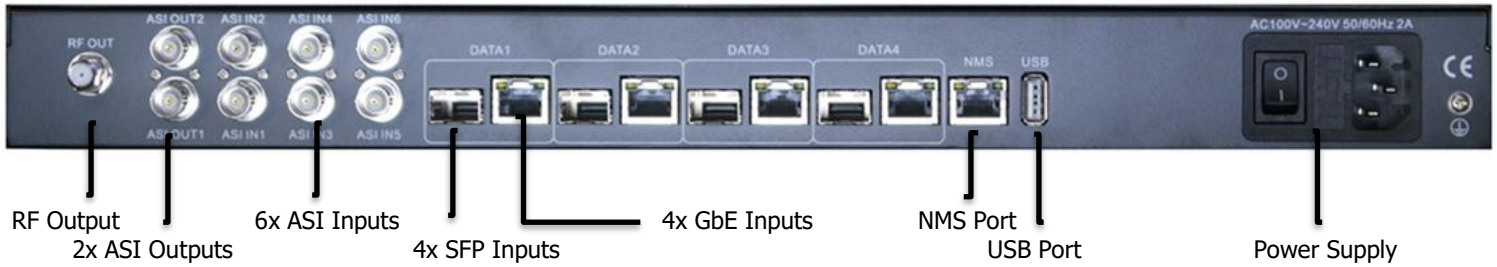
Multiplexing Architectures: Effectively combines multiple input sources into dedicated RF carriers while simultaneously providing IP MPTS streams for secondary distribution.

Hospitality and Campus TV Networks: Ideal for converting high-volume IP-based feeds into DVB-T RF signals, enabling seamless digital television distribution over existing coaxial cable infrastructures in hotels, hospitals, and large commercial or residential campuses.

BLANKOM Highlights

Licensing: Lifetime license included; no recurring or annual fees required.

Warranty: Includes a 2-year standard warranty, with optional extensions available for up to 5 years of total coverage.



Input interfaces

Parameter	Value
IP input	Max 512 IP input through Data1-Data4 100/1000M Ethernet Port (or optional SFP interface). Each Data port can input max 512 IP.
ASI input	6 ASI input, BNC interface.
Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3.
Transmission Rate	Max 840Mbps for each input channel.

Specifications are subject to change without prior notice.

Multiplexing

Parameter	Value
Input Channel	512
Output Channel	8
Max PIDs	256 per channel
Functions	PID remapping (auto/manually optional), PCR accurate adjusting, PSI/SI table automatically generating.

Specifications are subject to change without prior notice.

TS Output

Parameter	Value
IP Output	8 (or 16) IP output over UDP/RTP/RTSP, unicast/multicast, Data1 100/1000M Ethernet Ports.
ASI Output	2 ASI output, one as mirror.

Specifications are subject to change without prior notice.

Modulation Parameters

Parameter	Value
Channel	8
Standard	ETSI EN300 744.
Constellation	QPSK / 16QAM / 64QAM.
Bandwidth	6 / 7 / 8 MHz.
Trans Mode	2K / 4K / 8K.
FEC	1/2, 2/3, 3/4, 5/6, 7/8.
Interface	F typed output port for 8 non-adjacent carriers.
RF Range	50~960MHz, 1kHz stepping.
RF Output Level	-20~+10dbm (for all carriers), 0.5db stepping.
MER	≥40 dB
ACL	-55 dBc.

Specifications are subject to change without prior notice.

System & General

Parameter	Value
Management	Web-based Network management.
Power requirements	AC 110V±10% or AC 220V±10%, 50/60Hz
Power consumption	<15W.
Temperature range	0~45°C (operation)
Dimensions	430 x 180 x 44mm

Specifications are subject to change without prior notice.

Ordering information

Type	Description
HDC-5008T	IP to DVB-T Modulator