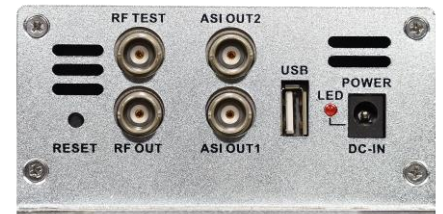


## Single Channel IP 2 QAM UHD 4K Modulator



A compact agile DVB-C A/C QAM channel modulator with integrated multiplexer receiving UDP multicast streams in any Codec/Resolution incl. SD, HD, 4K UHD compatible with h.265, h.264 & MPEG2 codec from multiple Encoder- & DVB IP streamer sources.

- Input: 8x UDP/RTSP\*/HLS\* Multicast reception (max. 51 Mb/s = DVB-C max. Data)
- Gigabit Ethernet RJ 45 Interface
- Nominal RF Output power  $\geq 120\text{dB}\mu\text{V}$ , Range: 48...863MHz
- 0...20dB adjustable attenuation
- Test RF output – 20dB
- 2x ASI Outputs for cascading or monitoring the Transportstream
- IGMP multicast Query support
- Video-over IP applications like CCTV to DVB-C
- Multiplex RTSP/HLS/UDP to MPEG-TS
- Bandwidth: 1.15MHz...8.05MHz, Symbol Rate up to 7000
- 16, 32, 64, 128, 256QAM modulation modes

### BLANKOM IPQAM-801

DVB-C QAM Modulator as addon Channel to existing CATV networks or serving Information-Channels or Digital Signage by Cable-TV.

UHD h.265 (HEVC), h.264 compatible in Distribution of SD, HD and UHD TV channels through the existing CATV Coax network using state-of-art IP to QAM technology from almost any kind of video format input streams.

TV distributions in home entertainment, surveillance control, hotels, digital signage, shops, bars, etc.

Excellent Video and Audio quality.

High reliability.

No regular service and maintenance need during operation.

[www.blankom.de](http://www.blankom.de)

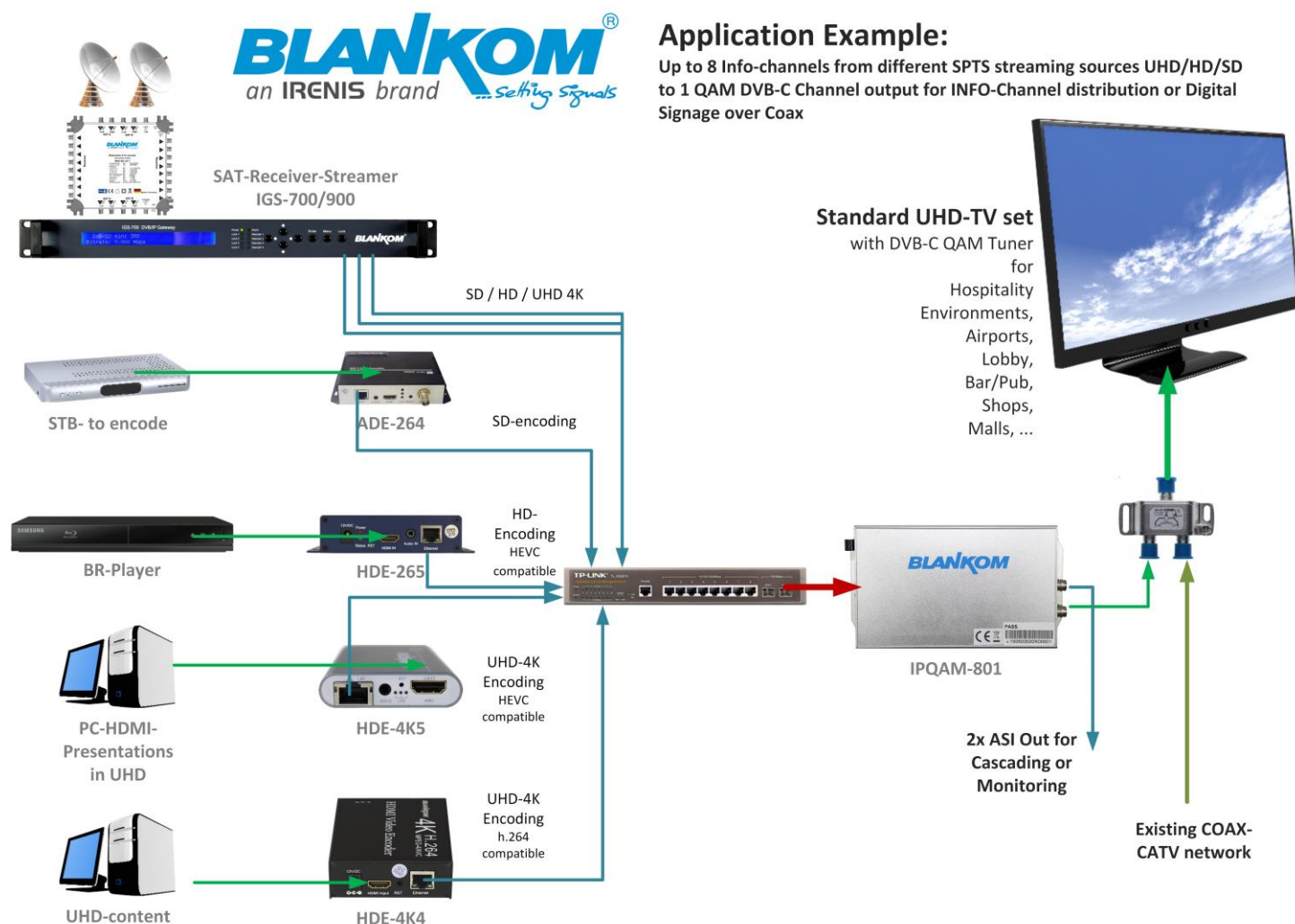
[info@blankom.de](mailto:info@blankom.de)

\*) coming soon

## Technical Specifications

Parameter	Symbol	Description	Unit	Remark
<b>Mechanical dimensions</b>				
Height	H	53	mm	
Width	W	107	mm	
Depth	D	171	mm	
<b>IP Port</b>				
Type	-	1000BASE-T		
Connector	-	RJ45		
Max. throughput	-	900	Mbps	
Compatible protocol	-	IP V4, RTSP, HLS, UDP		HLS (HTTP Live Streaming)
<b>RF Output</b>				
Impedance	-	75	$\Omega$	
Connector	-	BNC		
Frequency	-	48...863	MHz	Test-Port -20dB
Output level	-	>120	dB $\mu$ V	Adjustable (0...-20dB)
<b>ASI Output</b>				
Number of ASI output	-	2		
Impedance	-	75	$\Omega$	
Connector	-	BNC		
Effective bit rate	-	$\leq 51.6$	Mbps	
<b>Modulation Specification</b>				
Modulation scheme		16...256QAM		
Symbol Rate	SR	1...7000	kS/s	
Bandwidth	BW	1.15...8.05	MHz	
Effective output bit rate		$\leq 51.6$	Mbps	SR=7Mbaud, 256QAM
Modulation Error Rate	MER	$\geq 40$	dB	After equalizer, 64QAM
Bit Error Rate	BER	$\geq 9 \times 10^{-9}$		After FEC, 64QAM
Carrier to Noise	C/N	$\geq 45$	dB	
<b>Parameter</b>	<b>Symbol</b>	<b>Min.</b>	<b>Max.</b>	<b>Unit</b>
Supply Voltage	V	110	240	V
Supply Frequency	F	49	51	Hz
Power Consumption	C		20 (12V/2A)	W
Operating Temperature	Tw	0	+50	$^{\circ}$ C
Storage Temperature	Ts	-25	+55	$^{\circ}$ C
Operating Humidity	H	0	45	%
Standards: ITU-T J.83A/C	EN: 50083-9 300 429	ETSI:	TR 101 154 1	TR 101 89
Available as Outdoor version upon request				

## Application Example and corresponding Devices:



Designed and tested to operate with the following BLANKOM products:

- DVB-Streamer: IGS-700/900
- Transcoder BTR-6000
- Professional Encoder: EMU 8xxx series
- All our boxed Encoder-Streamer HDE/SDE...

in various resolution and codec compatible up to 4K UHD:

HDE-4K5

