

- Multiple functions
- High scalability
- Easy to extend
- Standard 19" housing
- IP Input
- PAL/SECAM Output
- A2/NICAM Stereo Audio
- Software-oriented architecture
- Simple RF management
- Multiformat modulation from 1RF Output



What MSOs require is the highest quality of technical parameters, scalability, predictable efficiency and low operating costs. ROTON is VECTOR's response to these needs. The offered platform is a perfect solution for the area where analog and digital transmission meet. This is where the conversion of IP digital transmission into analog takes place in order to generate PAL, SECAM, NTSC, QAM or COFDM offer.

When optimizing the ways of generating the TV offer our customers look for the highest quality and the scalability of the solution, which facilitates the conversion of IP to RF as close to the subscriber as possible. ROTON platform concept is intended to respond to the modern HUB – a remote location in the operator's network, which fed with the Video content in the IP format is able to provide any offer in the RF technology and others.

ROTON

GbE (IP) interface

Max. port load	Up to 1 Gb/s
Supported streams	SPTS/MPTS
Supported protocols	UDP, RTP
Transmission type	Unicast/Multicast
Transmission stream	MPEG-2 ISO/IEC 13818 MPEG-4 ISO/IEC 14496

ANALOG Output

Number of carriers	Up to 24 (One RF port)
Modulation	PAL/SECAM, VSB, NICAM, A2
Frequency range	40 - 1006 MHz
Output level	90 -120 dBuV
CNR (after internal combining)	> 60 dB
SNR (after internal combining)	> 53 dB

Technical specification

Video format	MPEG-2 HD/SD MP@ML H.264/AVC High Level 4.1 high profile
Image format	PAL, SECAM, NTSC
Aspect ratio	4:3/16:9
Image resolution	1080i,720p
Audio formats	MPEG-1 Layer II AAC-LC, HE-AAC
Sampling frequency	48,44.1,32
Encoding bit rate	32...384 kbps
Output volume adjustment	-30...0 dB

Others

Housing	1RU, 19"
Dimensions (W x H x L)	483 x 44 x 502 mm
Weight	6 kg
Power supply voltage	100...240 V AC
Power consumption	100 W
Operating temperature	5...40 °C
Humidity	80 %

Management and configuration

Embedded WEB server	✓
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Versatility

VECTOR's shared RF Output allows significant simplification of system's RF distribution architecture. You may extend your offer to the subscribers thanks to the Software architecture, IP Output/Input and RF Output.

Innovation

VECTOR'S innovative offer ensures a considerable profit margin to your company. You may freely create and modify the development scenarios.

Technology

VECTOR offers unique parameters of the signal. You may configure Outputs to your needs.

High density

Multiformat modulation from 1 RF Output

Software-oriented architecture

Flexible Output configuration; not adjacent frequency

Unique RF parameters

Flexible Output configuration

Simple RF management

Easy future proof upgrade of functionalities