

IP STREAM ROUTER AND SWITCHER FOR IPTV AND OTT

PRODUCT DESCRIPTION

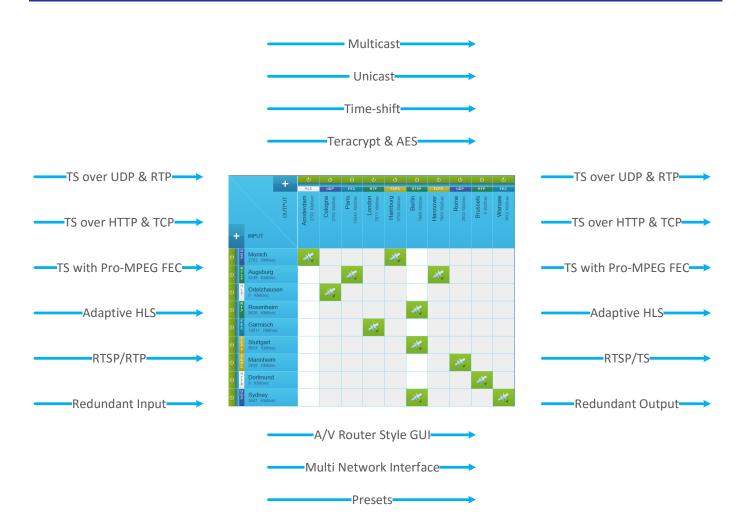
The MC-ROUTE is a multi functional problem solver. It is the right tool for a variety of different streaming tasks in the intranet and internet. It can be operated in-house or in the cloud. The MC-ROUTE can be operated by its simple integrated web interface or over external remote protocol.

KEY FEATURES

- Transport streams via UDP, RTP, TCP and HTTP
- Multiple input and output streams
- Redundant input stream switching
- AES encryption and decryption
- RTSP server and MPEG-TS over TCP
- Remote control by web services/SOAP
- Forward error correction Pro-MPEG FEC
- RAM-disc for HLS Streaming
- OTT to IPTV bridge

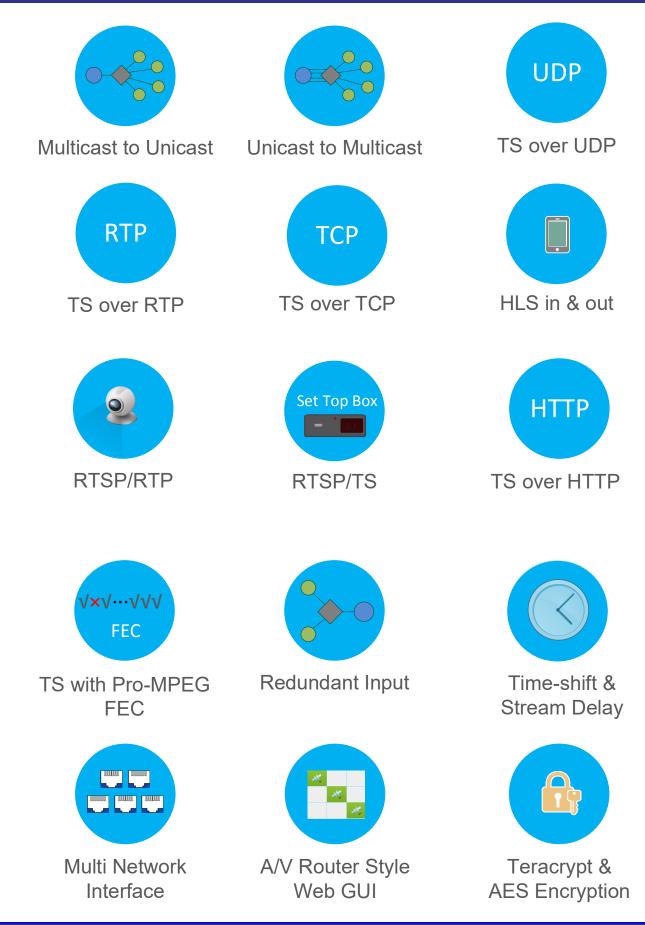
- Stream monitoring and status eMail*
- HLS streaming for iOS devices, Android & Google TV
- A/V switcher style routing matrix
- Adjustable time-shift and stream delay
- Unicast/Multicast with TS over UDP/RTP
- 1RU Appliance with pre-installed MC-ROUTE software license for easy set up
- Software package for server or public cloud installation
- Multi network interface support

APPLICATION





APPLICATION





TECHNICAL SPECIFICATION:

MC-ROUTE SOFTWARE :	
Stream protocol input:	TS over UDP, TS over RTP, TS over TCP, HLS, TS over HTTP, RTSP/RTP
Stream protocol output:	TS over UDP, TS over RTP, TS over TCP, HLS, RTSP/TS
Stream control:	RTSP server and client
Multiplex format:	ISO/IEC 13818-1 transport, ISO/IEC 14496-10 NAL (Network Abstraction Layer)
IP protocols:	HTTP, TCP/IP control protocol, UDP/RTP/TCP streaming, IGMP, SAP, unicast/ multicast, SNMP traps, DHCP
Error correction:	PRO-MPEG FEC (forward error correction) and TCP
Encryption/decryption:	TeraCrypt, AES-128
Jitter buffer:	Adjustable size 1-15 sec
Management:	Web browser, SNMP traps, SOAP web service, TCP frame work protocol
SYSTEM REQUIREMENTS:	
CPU:	Intel Core i3 and higher
RAM	4 GByte
Network interfaces:	1GbE or 10GbE
Operating system:	Microsoft Windows 7/8.1/10/2008/2012 The following Windows OS, components are needed: Internet Information Services v7.0 or higher with version 6.0 compatibility .NET Framework v3.5 or higher .NET Framework v4.5

MC-ROUTE HARDWARE PLATFORM:



MC-ROUTE-1RU

CPU:	Intel Core i3
RAM:	8 GByte
Operating System	Win 10 Pro, 64bit
Network:	2x 10/100/1000TX Ethernet, RJ45, half/full duplex, auto-sensing or manual control
Streaming Traffic:	up to max. 500 Mb/s
Time-shift capacity:	150 GB (24h@14Mb/s)



ENVIRONMENTAL:	
Chassis:	19", 1 RU
Dimensions:	43x482x407 mm (HxWxD)
Weight:	6,15 kg
Temperature:	5 to +60°C environmental temperature
Power Supply:	260 Watt PSU
Limited Warranty:	1 year standard limited warranty. Warranty extensions available.
ORDER INFORMATION:	
MC-ROUTE-1RU	MC-ROUTE 1RU rack mount IPTV Stream Router with single power supply and with prein- stalled MC-ROUTE software. Requires MC-ROUTE license.
MC-ROUTE-10	MC-ROUTE license for 10 simultaneous connections. Requires MC-SWMAIN for first 12 month of installation.
MC-ROUTE-50	MC-ROUTE license for 50 simultaneous connections. Requires MC-SWMAIN for first 12 month of installation.
MC-ROUTE-100	MC-ROUTE license for 100 simultaneous connections. Requires MC-SWMAIN for first 12 month of installation.
MC-SWMAIN	Annual software maintenance for MultiCoder. Free upgrades, same version number and eMail support.
COMPLEMENTARY PRODUCT	TS:
DEC-300-HDSDI	H.264 HD & MPEG-2 HD decoder blade with HD-SDI-, embedded audio, analog video/audio output.
ENC-300-DVI	MPEG-4 AVC H.264 DVI encoder blade with DVI/HDMI input (with embedded audio).
ENC-300-HDSDI	MPEG-4 AVC H.264 SD/HD encoder blade with SD/HD SDI input (with embedded audio) and Composite, S-Video (Y/C), Component (YP_bP_r) or analog VGA (RGB) input.
ENC-400-HDMI	H.264 and MJPEG HD/SD encoder board with HDMI input, loop through outpunts and USB recording.
ENC-400-HDSDI	H.264 and MJPEG HD/SD encoder board with HDSDI input, loop through outpunts and USB recording.
ENC-500-HDMI-PORTABLE	H.265 and H.264 HD/SD portable encoder device with HDMI input, available in Q3 2016

* Note: Some features to be introduced with upcoming upgrades

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