

Transis™ - RateCompressor

Description

The Transis RateCompressor is a sophisticated transrating solution that enables reductions in the bit rate of programs received in the headend, allowing operators to squeeze more revenue-generating services into one multiplexed transport stream. By optimizing bandwidth usage, the Transis RateCompressor helps operators reduce their overall transmission cost.



The Transis RateCompressor handles a flexible number of channels (up to 18 transrated services) and is therefore well suited for applications within digital terrestrial television networks, digital cable headends and playout centers. Furthermore, it can be used as a rate limiter for IP-based distribution networks because it can limit the rates of individual programs independently.

Employing new IntelliRate™ advanced transrating technology and algorithms, the Transis RateCompressor offers a higher degree of bit rate reduction than certain conventional transrating equipment currently available, while maintaining optimum video output quality.

The new Transis RateCompressor is a stand-alone device focused on transrating which, when combined with Scientific-Atlanta's D9600 Re-multiplexer and Transport Stream Processor series, offers operators a powerful solution for efficient statistical re-multiplexing. Placing the transrating function in a single, separate box considerably reduces complexity, makes upgrades easy and cost-effective, and offers operators freedom of choice.

Features

- Ideal for several applications such as statistical re-multiplexing, rate limiting, re-compression and TS overflow protection
- Install transrating when needed. The Transis RateCompressor is independent of re-multiplexing and TS processing
- Fully integrated with Scientific-Atlanta's digital headend processing platform
- IntelliRate transrating (optional) provides even more efficient use of bandwidth with the highest viewer satisfaction
- Rate limiting of individual programs for efficient IP distribution
- Cost-effective transrating of up to 18 programs in a compact 2 RU, stackable unit
- Pass-through of non-transrated programs (VBR and CBR, 4:2:2, HDTV, MPEG-4 etc.)

Transis RateCompressor



Specifications Release 2.0

General Specifications	
Operating temperature	0 to 40°C / 32 to 104°F
Cooling requirements	Redundant fans
Relative humidity	20 to 90 %, non-condensing
Power supply	100 to 240 V AC
Power consumption	200 W (fully loaded)
Dimensions (W x H x D)	19" x 2 RU x 400 mm 19" x 2 RU x 16"

Network Interfaces	
Input Interfaces	
Number of inputs	2 / active loop through
Connectors	BNC, 75 Ohm
Type	Dual DVB-ASI, according to EN 50083-9
TS bit rate	< 155 Mbit/s
Packet format	188 or 204 byte packets, no RS decoding
Output Interface	
Number of outputs	2
Connectors	BNC, 75 Ohm
Dual DVB-ASI	Acc. EN 50083-9
TS bit rate	< 60 Mbit/s
Packet format	188 or 204 byte packets, no RS encoding

Control and Monitoring	
Connector	RJ-45 (Ethernet)
Interface type	10/100 BaseT
Protocols	SNMP and FTP
User interfaces	ROSA GUI and full SNMP
Alarm contacts	5 (25-pin female Sub D)
Other interfaces	RS-232 (for initial setup)

Processing	
Rate Compression	
Video program formats	MPEG-2 MP@ML, up to 15 Mbit/s, all standard video formats and picture sizes CBR and/or VBR
Modes	Statistical transrating using different parameters: video quality, priority and min. bit rate rate limiting of individual programs
Rate reduction	CBR to VBR, VBR to VBR
Jitter	Reduction of PCR-jitter
IntelliRate (optional)	Enhanced transrating capability with higher rate reductions and video quality

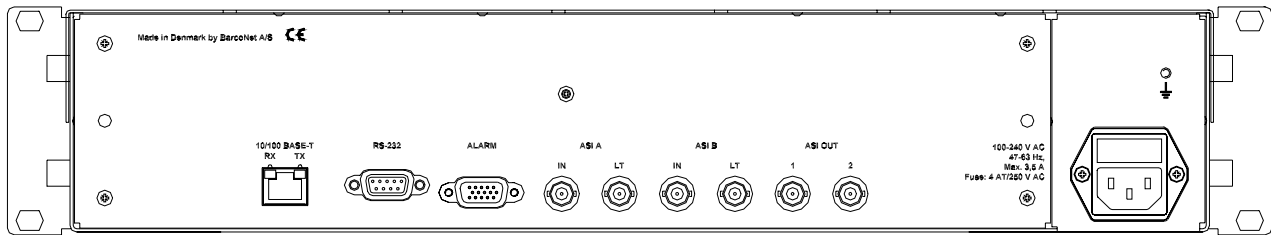
Transis RateCompressor



Specifications – continued Release 2.0

Processing	
Pass-Through	
Transrated programs	Frame-accurate pass-through of non-video data services locked to video (e.g. audio, VBI, subtitling, MHP, IP)
Non-transrated programs	Pass-through of non-transrated programs (VBR and CBR, 4:2:2, HDTV, MPEG-4 etc.)
Audio	All audio formats

Connector Panel



Transis RateCompressor

Ordering Information

Transis RateCompressor	Part Number
Transis RateCompressor for 3 programs	VD4690081
Transis RateCompressor for 6 programs	VD4690082
Transis RateCompressor for 9 programs	VD4690083
Transis RateCompressor for 12 programs	VD4690084
Transis RateCompressor for 15 programs	VD4690085
Transis RateCompressor for 18 programs	VD4690086
Options	
IntelliRate Enhanced Transrating Performance Option for the Transis RateCompressor	4003116
Transis driver for ROSA	V95299500



Scientific-Atlanta and the Scientific-Atlanta logo are registered trademarks of Scientific-Atlanta, Inc.
 ROSA is a trademark of Scientific-Atlanta Europe NV.
 Transis and Intellirate are trademarks of Scientific-Atlanta Denmark A/S
 The specifications and product availability are subject to change without notice.
 © 2003-2005 Scientific-Atlanta, Inc. All rights reserved.

Europe & Asia
 +45 39 17 00 00 or +32 56 445 445
www.saeurope.com

Americas
 1-800-722-2009 or 770-236-6900
www.scientificatlanta.com

Part Number 7001160 Rev C
 January 2005