

RTL Germany

Satellite	ASTRA 1L	ASTRA 1M
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	57
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33 MHz
Downlink frequency	12188 MHz	10832 MHz
Symbol rate	27500	22000
FEC	3/4	2/3
Package	FTA SD	HD+ SKY Deutschland
Provider/Package origin	Germany	Germany
Bitrate	38,0 Mbps	42,4 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	8PSK
Roll-Off		0,35
TID	1089	1057
ONID	1	1
SID	12003	61200
Video PID	163	255
Audio PID	104 / 106 AC3	259
PCR PID	163	255
VT PID	105	32
PMT	44	96
AIT	108	
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(104) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
	(106) Dolby Digital 2.0 384kbit/s 48kHz	
Encryption		Irdeto 2 Nagravision 3 Videoguard

RTL II Germany

Satellite	ASTRA 1L	ASTRA 1M
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	57
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33 MHz
Downlink frequency	12188 MHz	10832
Symbol rate	27500	22000
FEC	3/4	2/3
Package	FTA SD	HD+ SKY Deutschland
Bitrate	38,0 Mbps	42,4 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	8PSK
Roll-Off		0,35
TID	1089	1057
ONID	1	1
SID	12020	61205
Video PID	166	1535
Audio PID	128	1539
PCR PID	166	1535
VT PID	68	37
PMT	46	101
AIT	69	
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(128) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
Encryption		Irreto 2 Nagravision 3 Videoguard

VOX Germany

Satellite	ASTRA 1L	ASTRA 1M
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	57
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33 MHz
Downlink frequency	12188 MHz	10832 MHz
Symbol rate	27500	22000
FEC	3/4	2/3
Package	FTA SD	HD+ SKY Deutschland
Bitrate	38,0 Mbps	42,4 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	8PSK
Roll-Off		0,35
TID	1089	1057
ONID	1	1
SID	12060	61201
Video PID	167	511
Audio PID	136	515
PCR PID	167	511
VT PID	71	33
PMT	47	97
AIT		
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(136) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
Encryption		Irdeeto 2
		Nagravision 3
		Videoguard

S-RTL Germany

Satellite	ASTRA 1L	ASTRA 1KR
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	41
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33MHz
Downlink frequency	12188 MHz	11082 MHz
Symbol rate	27500	22000
FEC	3/4	3/4
Package	FTA SD	HD+ SKY Deutschland
Bitrate	38,0 Mbps	47,7 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	QPSK
Roll-Off		0,20
TID	1089	1041
ONID	1	1
SID	12040	11931
Video PID	165	300
Audio PID	120	310
PCR PID	165	300
VT PID	65	320
PMT	45	53
AIT		321
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(120) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
Encryption		Irdeto 2
		Nagravision 3
		Videoguard

n-tv Germany

Satellite	ASTRA 1L	ASTRA 1M
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	57
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33 MHz
Downlink frequency	12188 MHz	10832 MHz
Symbol rate	27500	22000
FEC	3/4	2/3
Package	FTA SD	HD+ SKY Deutschland
Bitrate	38,0 Mbps	42,4 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	8PSK
Roll-Off		0,35
TID	1089	1057
ONID	1	1
SID	12090	61204
Video PID	169	1279
Audio PID	73	1283
PCR PID	169	1279
VT PID	80	36
PMT	48	100
AIT		
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(73) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
Encryption		Irdeco 2 Nagravision 3 Videoguard

RTL NITRO

Satellite	ASTRA 1L	ASTRA 1KR
Orbital position	19,2°Ost	19,2°Ost
Transponder	89	41
Polarization	horizontal	horizontal
Bandwidth	26 / 33MHz	26 / 33MHz
Downlink frequency	12188 MHz	11082 MHz
Symbol rate	27500	22000
FEC	3/4	3/4
Package	FTA SD	HD+ SKY Deutschland
Bitrate	38,0 Mbps	47,7 Mbps
Type	DVB-S	DVB-S2
Modulation	QPSK	QPSK
Roll-Off		0,20
TID	1089	1041
ONID	1	1
SID	12061	11951
Video PID	173	500
Audio PID	146	510
PCR PID	173	500
VT PID	84	520
PMT	53	55
AIT		530
Video	MPEG2 StatMux	MPEG-4 StatMux
Audio	(146) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz	AC3
Encryption		Irdeto 2 Nagravision 3 Videoguard

RTL plus

Satellite	ASTRA 1L
Orbital position	19,2°Ost
Transponder	89
Polarization	horizontal
Bandwidth	26 / 33MHz
Downlink frequency	12188 MHz
Symbol rate	27500
FEC	3/4
Package	FTA SD
Bitrate	38,0 Mbps
Type	DVB-S
Modulation	QPSK
Roll-Off	
TID	1089
ONID	1
SID	12080
Video PID	168
Audio PID	137
PCR PID	168
VT PID	
PMT	41
AIT	
Video	MPEG2 StatMux
Audio	(146) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz
Encryption	

TOGGO plus

Satellite	ASTRA 1L
Orbital position	19,2°Ost
Transponder	89
Polarization	horizontal
Bandwidth	26 / 33MHz
Downlink frequency	12188 MHz
Symbol rate	27500
FEC	3/4
Package	FTA SD
Bitrate	38,0 Mbps
Type	DVB-S
Modulation	QPSK
Roll-Off	
TID	1089
ONID	1
SID	12030
Video PID	301
Audio PID	303
PCR PID	301
VT PID	
PMT	58
AIT	
Video	MPEG2 StatMux
Audio	(146) MPEG-1 Audio Layer2 Stereo 192kbit/s 48.0kHz
Encryption	