



2022 Transmission Information/Technical Specifications

AT&T SportsNet which includes AT&T SportsNet Rocky Mountain, AT&T SportsNet Pittsburgh, and AT&T SportsNet Southwest in addition to the ROOT SPORTS Northwest region utilizes MPEG2, MPEG 4 /AVC HD satellite transport. These services can only be received with Harmonic XOS receivers. No other previous Cisco/SA decoder models or any other type of Harmonic IRDs (PVR) can receive either the AT&T SportsNet and ROOT SPORTS Networks

AT&T SportsNet & ROOT SPORTS Satellite RF Parameters
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AT&T SportsNet & ROOT SPORTS Channel Assignments
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Satellite Name	Galaxy 17
Orbital Location:	91.0 West Longitude
Active Input	RF-1 Port
Downlink Frequency	4040MHz (Transponder 17C)
Modulation Type	8PSK 5/6
Symbol Rate	30.000 MSPS
Roll Off	36/30 = 1.2 =20%
Polarity	Horizontal
Allocated Frequency	36MHz
Spectra Inversion	Normal
Pilots	On
PLS Code	0

Regional Channel Description	Channel Number	Call Letters
ROOT SPORTS Northwest	1	RTNW
AT&T SportsNet Rocky Mountain	2	ATRM
AT&T SportsNet Pittsburgh	3	ATPT
ROOT SPORTS Northwest ALT	4	RTAL
AT&T SportsNet Rocky Mountain ALT	5	ATUT
AT&T SportsNet Pittsburgh ALT	6	ATP2
AT&T SportsNet Southwest	7	ATSW
AT&T SportsNet Southwest ALT	8	ATS2
AT&T SportsNet Rocky Mountain West	9	ATLV
AT&T SportsNet Slate	10	ATTSN-SLATE
ROOT SPORTS Northwest PLUS	11	RTN3

Note: Depending upon your selected output delivery of MPEG 2 or MPEG 4/AVC - HD and/or SD spec transport stream – please refer to the below PID layout tables (Table 1-2)

Table 1: SD and HD MPEG2 Output PID Assignments

Channel Name			MPEG2 SD							
	Call Letters	Channel #	SID	PMT PID (dec)	Video PID (dec)	Audio 1 PID (dec)	Audio 2 PID (dec)	Audio 3 PID (dec)	DPI PID (dec)	ECM PID
ROOT SPORTS Northwest	RTNW	Channel 01	201	2010	2011	2012	2013	2014	2018	2019
AT&T SportsNet Rocky Mountain	ATRM	Channel 02	202	2020	2021	2022	2023	2024	2028	2029
AT&T SportsNet Pittsburgh	ATPT	Channel 03	203	2030	2031	2032	2033	2034	2038	2039
ROOT SPORTS Northwest ALT	RTAL	Channel 04	204	2040	2041	2042	2043	2044	2048	2049
AT&T SportsNet Rocky Mountain ALT	ATUT	Channel 05	205	2050	2051	2052	2053	2054	2058	2059
AT&T SportsNet Pittsburgh ALT	ATP2	Channel 06	206	2060	2061	2062	2063	2064	2068	2069
AT&T SportsNet Southwest	ATSW	Channel 07	207	2070	2071	2072	2073	2074	2078	2079
AT&T SportsNet Southwest ALT	ATS2	Channel 08	208	2080	2081	2082	2083	2084	2088	2089
AT&T SportsNet Rocky Mountain West	ATLV	Channel 09	209	2090	2091	2092	2093	2094	2098	2099
AT&T SportsNet SLATE	ATTSN-SLATE	Channel 10	210	2100	2101	2102	2103	n/a	n/a	n/a
ROOT SPORTS Northwest PLUS	RTN3	Channel 11	211	2110	2111	2112	2113	2114	2118	2119

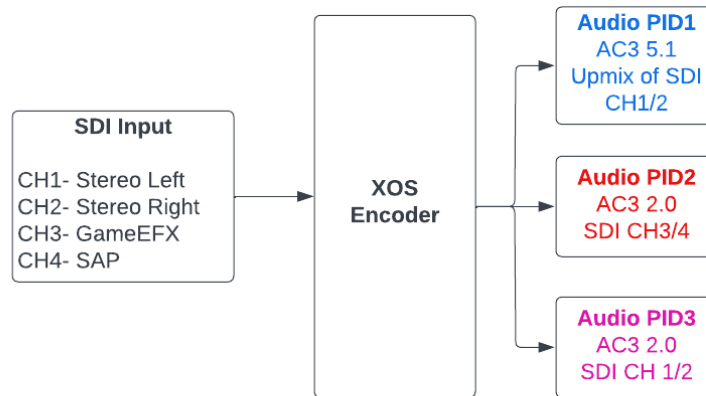
Channel Name			MPEG2 HD							
	Call Letters	Channel #	SID	PMT PID (dec)	Video PID (dec)	Audio 1 PID (dec)	Audio 2 PID (dec)	Audio 3 PID (dec)	DPI PID (dec)	ECM PID
ROOT SPORTS Northwest	RTNW	Channel 01	301	3010	3011	3012	3013	3014	3018	3019
AT&T SportsNet Rocky Mountain	ATRM	Channel 02	302	3020	3021	3022	3023	3024	3028	3029
AT&T SportsNet Pittsburgh	ATPT	Channel 03	303	3030	3031	3032	3033	3034	3038	3039
ROOT SPORTS Northwest ALT	RTAL	Channel 04	304	3040	3041	3042	3043	3044	3048	3049
AT&T SportsNet Rocky Mountain ALT	ATUT	Channel 05	305	3050	3051	3052	3053	3054	3058	3059
AT&T SportsNet Pittsburgh ALT	ATP2	Channel 06	306	3060	3061	3062	3063	3064	3068	3069
AT&T SportsNet Southwest	ATSW	Channel 07	307	3070	3071	3072	3073	3074	3078	3079
AT&T SportsNet Southwest ALT	ATS2	Channel 08	308	3080	3081	3082	3083	3084	3088	3089
AT&T SportsNet Rocky Mountain West	ATLV	Channel 09	309	3090	3091	3092	3093	3094	3098	3099
AT&T SportsNet SLATE	ATTSN-SLATE	Channel 10	310	3100	3101	3102	3103	n/a	n/a	n/a
ROOT SPORTS Northwest PLUS	RTN3	Channel 11	311	3110	3111	3112	3113	3114	3118	3119

Table 2: SD and HD MPEG4/AVC Output PID Assignments

Channel Name	Call Letters	Channel #	MPEG4/AVC SD							
			SID	PMT PID (dec)	Video PID (dec)	Audio 1 PID (dec)	Audio 2 PID (dec)	Audio 3 PID (dec)	DPI PID (dec)	ECM PID
ROOT SPORTS Northwest	RTNW	Channel 01	401	4010	4011	4012	4013	4014	4018	4019
AT&T SportsNet Rocky Mountain	ATRM	Channel 02	402	4020	4021	4022	4023	4024	4028	4029
AT&T SportsNet Pittsburgh	ATPT	Channel 03	403	4030	4031	4032	4033	4034	4038	4039
ROOT SPORTS Northwest ALT	RTAL	Channel 04	404	4040	4041	4042	4043	4044	4048	4049
AT&T SportsNet Rocky Mountain ALT	ATUT	Channel 05	405	4050	4051	4052	4053	4054	4058	4059
AT&T SportsNet Pittsburgh ALT	ATP2	Channel 06	406	4060	4061	4062	4063	4064	4068	4069
AT&T SportsNet Southwest	ATSW	Channel 07	407	4070	4071	4072	4073	4074	4078	4079
AT&T SportsNet Southwest ALT	ATS2	Channel 08	408	4080	4081	4082	4083	4084	4088	4089
AT&T SportsNet Rocky Mountain West	ATLV	Channel 09	409	4090	4091	4092	4093	4094	4098	4099
AT&T SportsNet SLATE	ATTSN-SLATE	Channel 10	410	4100	4101	4102	4103	n/a	n/a	n/a
ROOT SPORTS Northwest PLUS	RTN3	Channel 11	411	4110	4111	4112	4113	4114	4118	4119

Channel Name	Call Letters	Channel #	MPEG4/AVC HD							
			SID	PMT PID (dec)	Video PID (dec)	Audio 1 PID (dec)	Audio 2 PID (dec)	Audio 3 PID (dec)	DPI PID (dec)	ECM PID
ROOT SPORTS Northwest	RTNW	Channel 01	501	5010	5011	5012	5013	5014	5018	5019
AT&T SportsNet Rocky Mountain	ATRM	Channel 02	502	5020	5021	5022	5023	5024	5028	5029
AT&T SportsNet Pittsburgh	ATPT	Channel 03	503	5030	5031	5032	5033	5034	5038	5039
ROOT SPORTS Northwest ALT	RTAL	Channel 04	504	5040	5041	5042	5043	5044	5048	5049
AT&T SportsNet Rocky Mountain ALT	ATUT	Channel 05	505	5050	5051	5052	5053	5054	5058	5059
AT&T SportsNet Pittsburgh ALT	ATP2	Channel 06	506	5060	5061	5062	5063	5064	5068	5069
AT&T SportsNet Southwest	ATSW	Channel 07	507	5070	5071	5072	5073	5074	5078	5079
AT&T SportsNet Southwest ALT	ATS2	Channel 08	508	5080	5081	5082	5083	5084	5088	5089
AT&T SportsNet Rocky Mountain West	ATLV	Channel 09	509	5090	5091	5092	5093	5094	5098	5099
AT&T SportsNet SLATE	ATTSN-SLATE	Channel 10	510	5100	5101	5102	5103	n/a	n/a	n/a
ROOT SPORTS Northwest PLUS	RTN3	Channel 11	511	5110	5111	5112	5113	5114	5118	5119

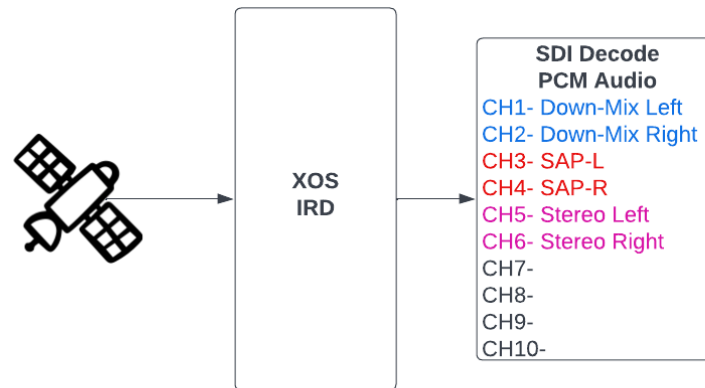
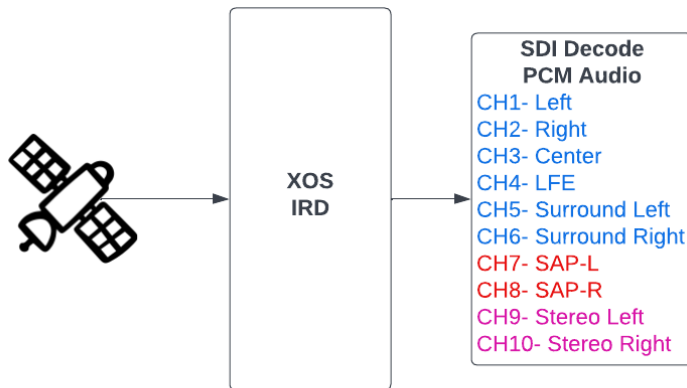
Audio PID Layout



PID1 5.1 Decode

OR

PID1 2.0 Down-Mix



Standardized Volume Limit	Set to -24LKFS
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AT&T SportsNet & ROOT SPORTS Northwest
Implementation, Authorization and Technical Assistance

Harmonic AT&T SportsNet/ROOT XOS IRD Migration Help Desk & Implementation Support:

Harmonic Professional Services Phone: (408) 490-6521, 7 a.m. to 4 p.m. Pacific Time, Monday through Friday

Email: ATT-RSN-HELP@harmonicinc.com

Encompass TOC- Service Authorization and general project information: (24x7 support)

Encompass Technical Support: 678-245-7601 or 678-421-6604

Email: atltoc@encompass.tv

Project descriptions, product documentation, installation guides, and other useful information are available to download at:



<https://www.harmonicinc.com/documentation/att-rsn>

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