Features and Benefits

1.8 GHz RPT Upgrade Faceplate For Magnavox/Philips Series Multi-Taps

RPT1000EP-G8

The Retrofit RPT1000EP-G8 series 1.8 GHz upgrade tap faceplates are compatible with versions of legacy Magnavox/Philips housings*. Simply swap out a legacy tap faceplate with the upgrade faceplate to extend your bandwidth to 1.8 GHz without the need to resplice.

The tap features the Antronix CamPort® for unmatched F-port reliability and E-Option signal conditioning plug-in filters to optimize your upstream and downstream signal levels. The 1.8 GHZ faceplates mate to versions of legacy housings with a make-before-break bypass for continuous video, data, telephony and power during faceplate changes.

- **Compatible with versions of legacy Magnavox/Philips housings***
  Housings with a make-before-break bypass ensures uninterrupted service when upgrading the faceplate.
- **1.8 GHz Bandwidth to support DOCSIS 4.0**
  Wide 1.8 GHz bandwidth to support future advanced services like DOCSIS 4.0.
- **No Need to Resplice Taps**
  Save installation time and hardline connector costs.
- **1.8 GHz Faceplate Insertion Losses Match Legacy 1.2 GHz Taps**
  Avoids re-balance your existing system.
- **E-Option Drop Signal Conditioning Standard**
  Allows the signal conditioning at the tap to meet any network needs. Plug-in modules include:
  - Cable Equalizer
  - Cable Simulator
  - Return Path Attenuator
  - High Tap Value Filter
- **CamPort Sealed, Auto-Seizing F-ports**
  >2000 grams seizing force on the center pin of the F-connector.
- **Extended Surge Protection**
  6 KV combination Wave surge withstand on all ports.

* Reference Housing Compatibility chart

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2 Port Tap Electrical Specifications
RPT1200EP-G8

Model / Tap Value	RPT	1204 4		1208 8		1211 11		1214 14		1217 17		1220 20		1223 23		1226 26		1229 29	
Specification	**Freq (MHz)**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**	**Max**	**Avg**
Tap Loss Max/Avg (dB)	5	5.0	4.0	9.2	8.0	12.0	11.0	15.0	14.0	18.0	17.0	24.0	23.0	30.0	27.0	32.0	30.0	36.0	34.0
	12	5.0	4.0	9.0	7.5	12.0	11.0	15.0	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	50	5.0	4.0	9.0	7.5	12.0	11.0	15.0	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	108	5.0	4.0	9.0	7.5	12.0	11.0	15.0	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	258	5.0	4.0	9.0	7.5	12.0	11.0	15.0	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	492	5.0	4.0	9.0	7.5	12.0	11.0	15.0	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	870	5.0	4.0	9.0	7.5	12.5	11.0	15.5	14.0	18.0	17.0	21.0	20.0	24.0	23.0	27.0	26.0	30.0	29.0
	1002	5.5	4.0	9.0	8.0	12.5	11.0	15.5	14.0	18.5	17.0	21.0	20.0	24.0	22.5	27.0	25.5	30.0	29.0
	1218	6.0	4.0	10.0	8.0	13.5	11.5	16.0	14.0	19.0	17.0	21.0	20.0	24.0	22.5	27.0	25.5	30.0	28.5
	1800	8.0	6.0	12.5	10.5	15.5	13.5	18.0	16.0	20.5	18.0	22.5	21.0	25.5	23.0	28.5	27.0	31.5	29.5
Insertion Loss Max/Avg (dB)	5	-	-	3.7	3.5	2.6	2.3	1.4	1.3	1.3	1.0	1.2	0.8	0.9	0.6	1.0	0.6	0.9	0.6
	12	-	-	3.6	3.5	2.2	1.8	1.2	1.0	1.0	0.8	0.9	0.7	0.7	0.5	0.7	0.5	0.7	0.5
	50	-	-	3.6	3.4	2.0	1.7	1.2	1.0	1.0	0.8	0.8	0.6	0.6	0.4	0.6	0.4	0.6	0.4
	108	-	-	3.7	3.4	2.2	1.8	1.4	1.1	1.3	0.8	0.8	0.6	0.7	0.5	0.7	0.5	0.7	0.5
	258	-	-	4.2	3.8	2.6	2.3	1.8	1.6	1.6	1.4	1.2	0.8	0.8	0.6	0.8	0.6	0.8	0.7
	492	-	-	4.6	4.4	2.8	2.4	2.0	1.6	1.8	1.4	1.5	0.7	1.0	0.6	0.9	0.6	0.9	0.6
	870	-	-	5.0	4.6	2.9	2.5	2.2	1.7	1.9	1.5	1.7	1.1	1.3	0.9	1.2	1.0	1.2	1.0
	1002	-	-	5.2	4.5	3.1	2.5	2.4	1.7	2.0	1.4	1.9	1.1	1.4	1.0	1.3	1.0	1.3	1.0
	1218	-	-	5.4	4.7	3.4	2.8	2.6	2.1	2.3	1.6	2.0	1.2	1.6	1.1	1.5	1.1	1.5	1.1
	1800	-	-	6.5	5.7	4.8	4.3	3.8	3.4	3.2	2.7	3.0	1.8	2.3	1.9	2.2	1.8	2.2	1.9
Specification	**Freq (MHz)**	**Min**		**Min**		**Min**		**Min**		**Min**		**Min**		**Min**		**Min**		**Min**	
Output to Tap Isolation Min (dB)	5-10	-		15		20		23		25		17		18		22		25	
	10-20	-		20		25		26		26		22		23		27		28	
	20-108	-		22		28		28		24		30		33		37		40	
	108-258	-		24		24		28		22		33		35		37		40	
	258-492	-		23		24		28		22		33		35		37		40	
	492-870	-		20		24		27		22		33		33		35		38	
	870-1002	-		20		22		24		23		28		29		29		34	
	1002-1218	-		20		22		22		23		28		29		29		31	
	1218-1800	-		20		20		22		23		27		28		28		30	

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2 Port Tap Electrical Specifications
RPT1200EP-G8

Model Tap Value	RPT	1204 4	1208 8	1211 11	1214 14	1217 17	1220 20	1223 23	1226 26	1229 29
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min	Min
Tap to Tap Isolation Min (dB)	5-10	19	11	18	19	18	10	10	15	20
	10-20	24	20	22	22	21	20	20	20	25
	20-108	24	23	22	23	22	22	25	25	25
	108-258	22	22	22	22	22	25	25	25	25
	258-492	20	22	22	22	22	25	25	24	24
	492-870	20	22	22	22	22	22	22	23	23
	870-1002	20	22	22	22	22	22	22	22	22
	1002-1218	20	22	22	22	22	22	22	22	22
	1218-1800	18	18	18	18	18	18	18	18	18
Input Return Loss Min (dB)	5-10	15	16	13	16	16	16	16	16	16
	10-20	16	16	14	16	16	16	16	16	16
	20-108	16	16	15	16	16	16	16	16	16
	108-258	16	16	16	16	16	16	16	16	16
	258-492	16	16	16	16	16	16	16	16	16
	492-700	16	16	16	16	16	16	16	16	16
	700-1002	13	13	13	13	13	13	13	13	13
	1002-1218	13	13	13	13	13	13	13	13	13
	1218-1800	13	13	13	13	13	14	13	14	14
Output Return Loss Min (dB)	5-10	-	13	16	16	16	15	16	16	16
	10-20	-	16	16	16	16	16	16	16	16
	20-108	-	16	16	16	16	16	16	16	16
	108-258	-	16	16	16	16	16	16	16	16
	258-492	-	16	16	16	16	16	16	16	16
	492-700	-	16	16	16	16	16	16	16	16
	700-1002	-	13	13	13	13	13	13	13	13
	1002-1218	-	13	13	13	13	13	13	13	13
	1218-1800	-	13	13	13	13	13	13	13	13
Tap Port Return Loss Min (dB)	5-10	16	8	10	10	10	6	7	10	14
	10-20	18	13	13	14	14	13	13	14	16
	20-108	18	16	16	15	16	16	18	18	18
	108-258	18	18	18	16	18	18	18	18	18
	258-492	18	18	18	18	18	18	18	18	18
	492-700	18	18	18	18	18	16	18	18	18
	700-1002	16	16	16	16	16	16	16	16	16
	1002-1218	16	15	15	16	16	16	16	16	16
	1218-1800	14	14	14	14	14	14	14	14	14

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4 Port Tap Electrical Specifications
RPT1400EP-G8

Model Tap Value	RPT	1408 8		1411 11		1414 14		1417 17		1420 20		1423 23		1426 26		1429 29	
Specification	Freq (MHz)	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg
Tap Loss Max/Avg (dB)	5	9.0	7.5	12.2	11.0	15.0	14.0	18.0	17.0	21.0	19.0	25.5	23.0	30.5	29.5	34.0	33.0
	12	9.0	7.5	12.0	10.5	15.0	14.0	18.0	17.0	21.0	19.0	24.5	23.0	27.0	26.0	30.0	29.0
	50	9.0	7.5	12.0	10.5	15.0	14.0	18.0	17.0	21.0	19.5	24.5	23.0	27.0	26.0	30.0	29.0
	108	9.0	7.5	12.0	10.5	15.0	14.0	18.0	17.0	21.0	20.0	24.5	23.0	27.0	26.0	30.0	29.0
	258	9.0	7.5	12.0	11.0	15.5	14.0	18.5	17.0	21.0	20.0	24.5	23.0	27.0	26.0	30.0	29.0
	492	9.0	8.0	12.0	11.0	15.5	14.0	18.5	17.0	21.0	20.0	25.0	23.0	27.0	26.0	30.0	29.0
	870	9.0	8.0	12.5	11.0	16.0	14.0	19.0	17.0	22.0	20.0	25.0	23.0	27.5	26.0	30.0	29.0
	1002	9.5	8.0	12.8	11.0	16.5	14.5	19.0	17.5	22.0	20.0	25.0	23.0	27.5	26.0	30.0	29.0
	1218	10.0	8.5	13.5	12.0	17.0	15.0	20.0	18.0	22.0	20.0	25.5	23.5	28.0	26.0	31.0	29.0
	1800	12.8	11.0	16.8	15.0	18.8	17.0	21.8	20.5	23.3	22.0	26.8	25.0	29.0	27.0	32.0	30.0
Insertion Loss Max/Avg (dB)	5	-	-	3.9	3.6	2.8	2.3	1.5	1.3	1.5	1.1	1.2	0.9	1.0	0.6	1.0	0.6
	12	-	-	3.8	3.5	2.2	1.8	1.2	1.0	1.4	1.1	1.1	0.8	0.8	0.5	0.8	0.5
	50	-	-	3.6	3.4	2.0	1.7	1.2	1.0	1.2	0.8	0.9	0.6	0.7	0.5	0.7	0.5
	108	-	-	3.8	3.4	2.1	1.7	1.4	1.0	1.2	0.8	0.9	0.6	0.8	0.5	0.8	0.5
	258	-	-	4.3	3.8	2.6	2.2	1.8	1.5	1.2	0.9	1.0	0.8	0.9	0.7	0.9	0.7
	492	-	-	4.7	4.4	2.9	2.4	2.0	1.6	1.4	0.9	1.1	0.7	1.0	0.6	1.0	0.6
	870	-	-	5.0	4.4	3.0	2.4	2.2	1.7	1.6	1.2	1.3	1.0	1.2	0.9	1.2	0.9
	1002	-	-	5.2	4.4	3.2	2.5	2.4	1.7	1.8	1.3	1.4	1.0	1.3	0.9	1.3	0.9
	1218	-	-	5.4	4.5	3.6	2.6	2.6	1.8	2.1	1.5	1.6	1.1	1.5	1.1	1.5	1.0
	1800	-	-	6.5	6.0	4.6	4.0	3.8	3.3	3.2	2.6	2.4	1.7	2.2	1.8	2.2	1.7
Specification	Freq (MHz)	Min		Min		Min		Min		Min		Min		Min		Min	
Output to Tap Isolation Min (dB)	5-10	-		17		23		26		15		20		21		25	
	10-20	-		22		28		30		19		23		28		32	
	20-108	-		25		32		33		24		30		38		40	
	108-258	-		25		27		31		28		33		38		40	
	258-492	-		25		27		31		28		31		38		40	
	492-870	-		23		27		29		26		31		36		37	
	870-1002	-		23		26		27		24		30		33		35	
	1002-1218	-		23		26		27		24		30		33		33	
	1218-1800	-		23		23		23		24		28		30		32	

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4 Port Tap Electrical Specifications
RPT1400EP-G8

Model Tap Value	RPT	1408 8	1411 11	1414 14	1417 17	1420 20	1423 23	1426 26	1429 29
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Tap to Tap Isolation Min (dB)	5-10	25	17	23	25	14	13	16	22
	10-20	25	22	25	25	19	19	21	24
	20-108	25	25	25	25	22	22	25	24
	108-258	23	24	25	25	23	24	25	25
	258-492	23	24	23	23	25	24	25	25
	492-870	22	22	22	22	23	22	23	23
	870-1002	22	22	22	22	22	22	22	22
	1002-1218	22	22	22	22	22	22	22	22
	1218-1800	18	18	18	18	18	18	18	18
Input Return Loss Min (dB)	5-10	13	16	12	16	16	16	16	16
	10-20	16	16	13	16	16	16	16	16
	20-108	16	16	14	16	16	16	16	16
	108-258	16	16	16	16	16	16	16	16
	258-492	16	16	16	16	16	16	16	16
	492-700	16	16	16	16	16	16	16	16
	700-1002	13	13	13	13	13	13	13	13
	1002-1218	13	13	13	13	13	13	13	13
	1218-1800	13	13	13	13	13	13	13	13
Output Return Loss Min (dB)	5-10	-	14	16	16	16	16	16	16
	10-20	-	16	18	16	16	16	16	16
	20-108	-	16	18	16	16	16	16	16
	108-258	-	16	16	16	16	16	16	16
	258-492	-	16	16	16	16	16	16	16
	492-700	-	16	16	16	16	16	16	16
	700-1002	-	13	13	13	13	13	13	13
	1002-1218	-	13	13	13	13	13	13	13
	1218-1800	-	13	13	13	13	13	13	13
Tap Port Return Loss Min (dB)	5-10	14	10	14	14	11	11	12	16
	10-20	16	14	18	18	13	13	16	16
	20-108	18	16	18	18	18	18	18	18
	108-258	18	18	18	18	18	18	18	18
	258-492	18	18	18	18	18	18	18	18
	492-700	18	18	18	16	17	17	17	17
	700-1002	16	16	16	16	16	16	16	16
	1002-1218	16	16	16	15	16	16	16	16
	1218-1800	14	14	14	14	14	14	14	14

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8 Port Tap Electrical Specifications
RPT1800EP-G8

Model Tap Value	RPT	1812 12		1815 15		1818 18		1821 21		1824 24		1827 27		1830 30	
Specification	Freq (MHz)	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg
Tap Loss Max/Avg (dB)	5	13.5	11.0	15.5	15.0	19.0	17.0	22.5	20.5	25.0	22.5	29.0	26.0	35.8	34.0
	12	13.5	10.5	15.5	14.0	19.0	17.5	22.5	21.0	25.0	23.5	28.0	26.5	31.0	30.0
	50	13.5	10.5	15.5	14.0	19.0	17.5	22.5	21.0	25.0	23.5	28.0	26.5	31.0	30.0
	108	13.5	10.5	15.5	14.0	19.0	18.0	22.5	21.0	25.0	23.5	28.0	26.5	31.0	30.0
	258	13.5	10.5	15.5	14.5	19.5	18.0	23.0	21.0	25.0	23.5	28.0	26.5	31.0	29.5
	492	13.5	11.0	15.5	14.5	19.5	18.0	23.0	21.0	25.0	23.5	28.0	26.0	31.0	29.5
	870	13.5	11.0	16.5	15.0	20.0	18.0	23.0	21.0	25.5	23.5	28.0	26.0	31.0	29.5
	1002	13.5	11.5	16.5	15.0	20.5	18.0	23.5	21.0	26.0	23.5	28.5	26.0	31.5	29.0
	1218	14.0	12.0	17.5	15.0	21.0	18.5	24.5	22.0	26.0	23.5	28.5	26.0	31.5	29.0
	1800	17.0	14.5	20.8	18.5	22.5	20.5	25.5	24.0	27.5	24.5	30.0	27.0	33.0	30.0
Insertion Loss Max/Avg (dB)	5	-	-	3.9	3.8	2.5	2.3	1.5	1.3	2.0	1.2	1.5	1.3	1.0	0.6
	12	-	-	3.7	3.6	2.0	1.8	1.2	1.0	1.6	1.2	1.3	1.1	0.8	0.5
	50	-	-	3.5	3.4	1.9	1.7	1.2	1.0	1.1	0.8	1.0	0.8	0.6	0.4
	108	-	-	3.5	3.4	2.0	1.7	1.3	1.0	1.1	0.8	1.0	0.8	0.6	0.5
	258	-	-	4.3	3.7	2.6	2.3	1.7	1.5	1.2	0.9	1.1	0.9	0.8	0.6
	492	-	-	4.5	4.0	2.9	2.4	1.9	1.4	1.4	0.8	1.2	0.8	1.0	0.6
	870	-	-	5.0	4.7	3.0	2.6	2.1	1.6	1.8	1.2	1.5	1.2	1.3	0.9
	1002	-	-	5.2	4.8	3.1	2.6	2.2	1.7	2.0	1.3	1.6	1.2	1.4	0.9
	1218	-	-	5.4	4.9	3.5	3.0	2.5	2.0	2.3	1.6	1.8	1.3	1.6	1.1
	1800	-	-	6.8	6.3	5.6	4.8	4.5	3.9	3.5	2.7	2.7	2.1	2.7	2.0
Specification	Freq (MHz)	Min		Min		Min		Min		Min		Min		Min	
Output to Tap Isolation Min (dB)	5-10	-		21		26		28		16		19		22	
	10-20	-		25		30		33		20		23		27	
	20-108	-		28		30		35		25		33		39	
	108-258	-		28		30		35		29		35		39	
	258-492	-		28		30		35		29		35		39	
	492-870	-		23		28		30		27		35		38	
	870-1002	-		23		28		29		25		33		35	
	1002-1218	-		23		28		27		25		30		32	
	1218-1800	-		23		25		25		25		30		32	

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8 Port Tap Electrical Specifications
RPT1800EP-G8

Model Tap Value	RPT	1812 12	1815 15	1818 18	1821 21	1824 24	1827 27	1830 30
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min
Tap to Tap Isolation Min (dB)	5-10	24	19	22	25	20	19	20
	10-20	23	22	22	25	23	22	22
	20-108	22	23	22	24	22	23	22
	108-258	22	23	22	23	23	23	23
	258-492	22	23	22	23	23	23	23
	492-870	22	23	22	23	23	23	23
	870-1002	22	22	22	23	23	23	23
	1002-1218	22	22	22	23	22	23	23
	1218-1800	18	18	18	18	18	18	18
Input Return Loss Min (dB)	5-10	12	16	12	15	16	16	16
	10-20	14	16	13	16	16	16	16
	20-108	16	16	14	16	16	16	16
	108-258	16	16	16	16	16	16	16
	258-492	16	16	16	16	16	16	16
	492-700	16	16	16	16	16	16	16
	700-1002	13	13	13	13	13	13	13
	1002-1218	13	13	13	13	13	13	13
	1218-1800	13	13	13	13	13	13	13
Output Return Loss Min (dB)	5-10	-	13	16	16	15	16	16
	10-20	-	16	16	16	16	16	16
	20-108	-	16	16	16	16	16	16
	108-258	-	16	16	16	16	16	16
	258-492	-	16	16	16	16	16	16
	492-700	-	16	16	16	16	16	16
	700-1002	-	13	13	13	13	13	13
	1002-1218	-	13	13	13	13	13	13
	1218-1800	-	13	13	13	13	13	13
Tap Port Return Loss Min (dB)	5-10	13	12	14	14	14	13	14
	10-20	15	14	16	16	15	15	16
	20-108	17	16	17	17	17	17	17
	108-258	17	17	17	17	17	17	17
	258-492	17	17	17	17	17	17	17
	492-700	16	16	16	17	16	16	16
	700-1002	14	15	16	16	15	16	16
	1002-1218	14	15	16	16	15	16	16
	1218-1800	14	14	14	15	15	15	15

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Specifications
RPT1000EP-G8

General	
Impedance	75Ω
F-connector Type	ANSI/SCTE-01 Compliant CamPort® F-port
Power Rating	12 Amps Continuous, 60 to 90 VA
Hum Modulation @ 12 Amps	-60 dB max 5-10 MHz -60 dB max 10 - 1218 MHz -55 dB max 1218-1800 MHz
Dimensions	5.0" L x 3.9" W x 2.5" H
Environmental	
Operating Temperature	-40°C to +60°C
Pressure Seal (psi)	15 psi
Surge Withstand	6 kV Combination Wave Surge per IEEE C62.41 Category B3 on all ports
Corrosion Resistance	ANSI/SCTE-143 salt spray for 1000 hours
Screening Effectiveness	105 dB (min)

Ordering Information

RPT1 x yy - EP - G8

- 1.8 GHz
- P – Faceplate only
  E-Option Conditioning
- Tap Value*
- No. of Ports
  2 – 2 Port
  4 – 4 Port
  8 – 8 Port
- Magnavox/Philips Series

Model Number (RPT1xyyEP-G8)				Color Code
No. of Ports (x)	2	4	8	
***Tap Value** (yy)	04	-	-	Green
	08	08		Black
	11	11	12	Gold
	14	14	15	Blue
	17	17	18	Forest Green
	20	20	21	Dark Orange
	23	23	24	Light Orange
	26	26	27	Red
	29	29	30	Purple

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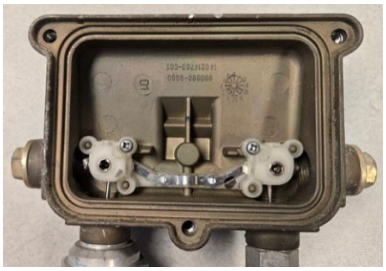
Housing Compatibility
RPT1000EP-G8

Housing Compatibility		Bypass	Housing
Antronix Tap Housing	✓		
Magnavox/Philips Tap Housing	✓		
Arris Tap Housing	X		