

Features and Benefits

ANTRONIX®

1.8 GHz MGT Upgrade Faceplate For Milenium Series Multi-Taps MGT2000SEP-G8

The Milenium MGT2000-SEP-G8 series 1.8 GHz upgrade tap faceplates are compatible with legacy Antronix Milenium 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. All Milenium faceplates mate to an Antronix USP housing for continuous video, data, telephony and power during faceplate changes.



- **Compatible with legacy Milenium housings***
Milenium USP housings feature a make-before-break bypass to ensure uninterrupted service when upgrading the faceplate.
- **1.8 GHz Bandwidth to support DOCSIS 4.0**
Faceplate
- **No Need to Resplice Taps**
Save installation time and costs
- **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 Milenium Housing Compatibility chart

2 Port Tap Electrical Specifications

MGT2200SEP-G8

Model Tap Value	MGT	2204 4		2208 8		2211 11		2214 14		2217 17		2220 20		2223 23		2226 26		2229 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	9.0	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	17.5	16.0	20.0	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	2.4	2.3	1.4	1.3	1.2	1.0	1.2	0.8	0.9	0.6	0.9	0.6	0.9	0.6
	12	-	-	3.6	3.5	2.0	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		18		20		22		25	
	10-20	-		20		25		28		26		22		23		27		28	
	20-108	-		26		28		30		26		30		33		39		40	
	108-258	-		26		25		30		23		36		36		37		40	
	258-492	-		24		25		30		23		36		36		37		40	
	492-870	-		20		25		27		23		33		33		36		38	
	870-1002	-		20		22		24		25		30		29		29		34	
	1002-1218	-		20		22		22		25		30		29		29		31	
	1218-1800	-		20		20		22		25		28		28		28		30	

2 Port Tap Electrical Specifications

MGT2200SEP-G8

Model Tap Value	MGT	2204 4	2208 8	2211 11	2214 14	2217 17	2220 20	2223 23	2226 26	2229 29
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min	Min
Tap to Tap Isolation Min (dB)	5-10	20	12	18	20	18	8	10	16	20
	10-20	25	22	22	25	22	20	20	20	25
	20-108	25	25	24	25	23	20	25	25	25
	108-258	22	22	22	20	22	25	25	25	25
	258-492	20	20	22	20	21	25	25	24	24
	492-870	20	22	22	23	21	25	23	23	23
	870-1002	20	22	23	23	23	23	22	22	22
	1002-1218	20	22	23	23	23	23	22	22	22
	1218-1800	18	18	18	18	18	18	18	18	18
Input Return Loss Min (dB)	5-10	16	16	15	16	16	16	16	16	16
	10-20	16	16	15	16	16	16	16	16	16
	20-108	16	16	15	16	16	16	16	16	16
	108-258	16	16	13	16	13	13	13	13	13
	258-492	14	16	13	13	13	13	13	13	13
	492-870	14	13	13	13	13	13	13	13	13
	870-1002	13	13	14	13	13	13	13	13	13
	1002-1218	13	13	14	13	13	13	13	13	13
	1218-1800	13	13	14	13	13	14	13	14	14
Output Return Loss Min (dB)	5-10	-	14	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	14	13	13	13	13	13	13
	258-492	-	16	14	13	13	13	13	13	13
	492-870	-	13	13	13	13	13	13	13	13
	870-1002	-	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	15	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
	492-870	18	18	18	18	18	18	18	18	18
	870-1002	16	16	16	16	16	16	16	16	16
	1002-1218	16	16	16	16	16	16	16	16	16
	1218-1800	15	15	15	15	15	15	15	15	15

4 Port Tap Electrical Specifications

MGT2400SEP-G8

Model Tap Value	MGT	2408 8		2411 11		2414 14		2417 17		2420 20		2423 23		2426 26		2429 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	12.0	11.0	15.0	14.0	18.0	17.0	21.0	19.0	25.0	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	12.5	11.0	16.0	15.0	18.5	17.0	21.5	20.5	23.0	22.0	26.5	25.0	29.0	27.0	32.0	30.0
Insertion Loss Max/Avg (dB)	5	-	-	3.9	3.6	2.5	2.3	1.4	1.3	1.5	1.1	1.2	0.9	1.0	0.6	0.9	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	0.7	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	4.5	4.0	3.8	3.3	3.0	2.6	2.2	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		22		25	
	10-20	-		22		28		30		20		23		28		32	
	20-108	-		25		32		33		24		30		38		40	
	108-258	-		28		28		33		28		34		38		42	
	258-492	-		28		28		33		28		32		38		42	
	492-870	-		25		28		30		26		32		36		38	
	870-1002	-		25		26		27		24		30		33		35	
	1002-1218	-		25		26		27		24		30		33		33	
	1218-1800	-		23		24		25		24		30		30		33	

4 Port Tap Electrical Specifications

MGT2400SEP-G8

Model Tap Value	MGT	2408 8	2411 11	2414 14	2417 17	2420 20	2423 23	2426 26	2429 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	20	20	21	25
	20-108	25	25	25	25	22	22	25	25
	108-258	23	25	25	25	25	25	25	25
	258-492	23	25	25	25	25	25	25	25
	492-870	20	22	23	25	23	23	23	25
	870-1002	20	20	23	23	22	23	23	23
	1002-1218	20	20	23	23	22	23	23	23
	1218-1800	18	18	20	18	18	18	18	18
Input Return Loss Min (dB)	5-10	14	16	13	16	16	16	16	16
	10-20	16	16	14	16	16	16	16	16
	20-108	16	16	15	16	16	16	16	16
	108-258	16	16	14	13	13	13	13	13
	258-492	13	16	14	13	13	13	13	13
	492-870	13	13	15	14	14	14	14	14
	870-1002	13	13	15	14	14	14	14	14
	1002-1218	13	13	15	14	14	14	14	14
	1218-1800	13	14	15	15	14	15	15	15
Output Return Loss Min (dB)	5-10	-	16	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	14	13	13	13	13	13
	258-492	-	16	14	13	13	13	13	13
	492-870	-	13	14	14	14	14	14	14
	870-1002	-	13	14	14	14	14	14	14
	1002-1218	-	13	14	14	14	14	14	14
	1218-1800	-	14	14	13	15	15	15	15
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
	492-870	18	18	18	16	18	18	18	18
	870-1002	16	16	16	16	16	16	16	16
	1002-1218	16	16	16	16	16	16	16	16
	1218-1800	14	14	14	14	15	15	15	15

Specifications subject to change without notice

8 Port Tap Electrical Specifications

MGT2800SEP-G8

Model Tap Value	MGT	2810 10		2812 12		2815 15		2818 18		2821 21		2824 24		2827 27		2830 30	
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	11.5	10.5	13.5	11.0	15.5	15.0	19.0	17.0	22.0	20.0	25.0	22.5	29.0	26.0	35.8	34.0
	12	11.5	10.5	13.5	10.5	15.5	14.0	19.0	17.5	22.0	20.5	25.0	23.5	28.0	26.5	31.0	30.0
	50	11.5	10.0	13.5	10.5	15.5	14.0	19.0	17.5	22.0	20.5	25.0	23.5	28.0	26.5	31.0	30.0
	108	11.5	10.0	13.5	10.5	15.5	14.0	19.0	18.0	22.0	20.5	25.0	23.5	28.0	26.5	31.0	30.0
	258	11.5	10.5	13.5	10.5	15.5	14.5	19.5	18.0	22.5	21.0	25.0	23.5	28.0	26.5	31.0	29.5
	492	12.0	10.5	13.5	11.0	15.5	14.5	19.5	18.0	22.5	21.0	25.0	23.5	28.0	26.0	31.0	29.5
	870	12.5	11.0	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	13.0	11.0	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	13.5	12.0	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	15.5	14.0	16.5	14.5	20.5	18.5	22.5	20.5	25.5	24.0	27.0	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	-	-	-	-	4.0	3.7	2.6	2.3	1.7	1.5	1.2	0.9	1.1	0.9	0.8	0.6
	492	-	-	-	-	4.3	4.0	2.9	2.4	1.9	1.4	1.4	0.8	1.2	0.8	1.0	0.6
	870	-	-	-	-	4.9	4.7	3.0	2.6	2.1	1.6	1.8	1.2	1.5	1.2	1.3	0.9
	1002	-	-	-	-	5.1	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	5.4	4.8	4.3	3.9	3.3	2.7	2.6	2.1	2.5	2.0
Specification	Freq (MHz)	Min		Min		Min		Min		Min		Min		Min		Min	
Output to Tap Isolation Min (dB)	5-10	-		-		21		26		28		16		20		22	
	10-20	-		-		25		30		33		20		23		27	
	20-108	-		-		29		30		35		31		33		39	
	108-258	-		-		29		30		35		31		36		39	
	258-492	-		-		29		30		35		31		36		39	
	492-870	-		-		26		28		33		29		36		39	
	870-1002	-		-		26		28		30		27		34		36	
	1002-1218	-		-		26		28		30		27		30		34	
	1218-1800	-		-		26		26		27		25		30		34	

8 Port Tap Electrical Specifications

MGT2800SEP-G8

Model Tap Value	MGT	2810 10	2812 12	2815 15	2818 18	2821 21	2824 24	2827 27	2830 30
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Tap to Tap Isolation Min (dB)	5-10	24	24	19	25	25	21	20	22
	10-20	24	24	22	25	25	23	22	25
	20-108	24	24	24	25	25	25	25	25
	108-258	24	24	24	25	25	25	25	25
	258-492	24	24	24	25	25	25	25	25
	492-870	23	24	24	25	25	25	25	25
	870-1002	22	22	22	23	25	23	23	24
	1002-1218	22	22	22	23	25	23	23	24
	1218-1800	20	20	20	20	20	20	20	20
Input Return Loss Min (dB)	5-10	11	12	16	13	16	15	16	16
	10-20	14	15	16	14	16	16	16	16
	20-108	16	16	16	15	16	16	16	16
	108-258	16	16	16	13	13	14	14	14
	258-492	13	13	16	13	13	14	14	14
	492-870	13	13	13	15	15	15	14	13
	870-1002	14	14	13	15	15	15	14	13
	1002-1218	14	14	13	15	15	15	14	13
	1218-1800	14	14	13	14	14	14	14	13
Output Return Loss Min (dB)	5-10	-	-	13	16	16	14	15	16
	10-20	-	-	16	16	16	16	16	16
	20-108	-	-	16	16	16	16	16	16
	108-258	-	-	16	13	13	14	15	14
	258-492	-	-	16	13	13	14	15	14
	492-870	-	-	13	15	15	14	13	13
	870-1002	-	-	13	15	15	14	13	13
	1002-1218	-	-	13	15	15	14	13	13
	1218-1800	-	-	13	14	14	14	13	13
Tap Port Return Loss Min (dB)	5-10	14	14	12	14	14	14	13	14
	10-20	16	16	15	16	16	15	15	16
	20-108	18	18	16	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
	492-870	18	18	18	18	18	18	18	18
	870-1002	16	16	16	16	16	16	16	16
	1002-1218	16	16	16	16	16	16	16	16
	1218-1800	14	14	14	15	15	15	15	15

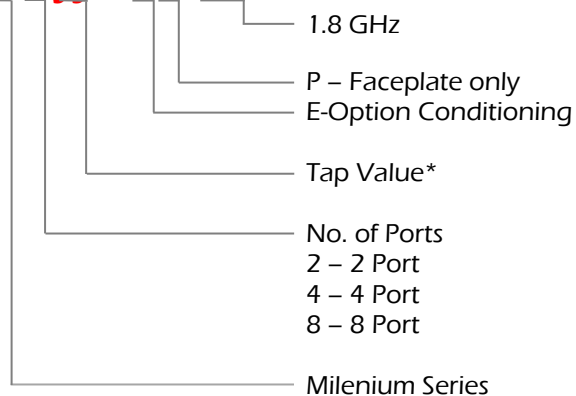
Specifications subject to change without notice

Specifications MGT2000SEP-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 @ 10 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

MGT2 x yy - SEP - G8



Model Number (MGT2xyy)				Color Code
No. of Ports (x)	2	4	8	
*Tap Value (yy)	04	-	-	Green
	08	08	10	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

Milenium Housing Compatibility MGT2000SEP-G8

Antronix USP Housing Compatibility		Bypass Housing	USP Label
Antronix USP Bypass: Version K3 Label: White Text, Grey Background Production: Nov 2000	✓		
Antronix USP Bypass: Version K2 Label: White Text, Black Background Production: Mar 1998	X		
Antronix USP Bypass: Version K1 Label: White Text, Red Background Production: 1996	X		