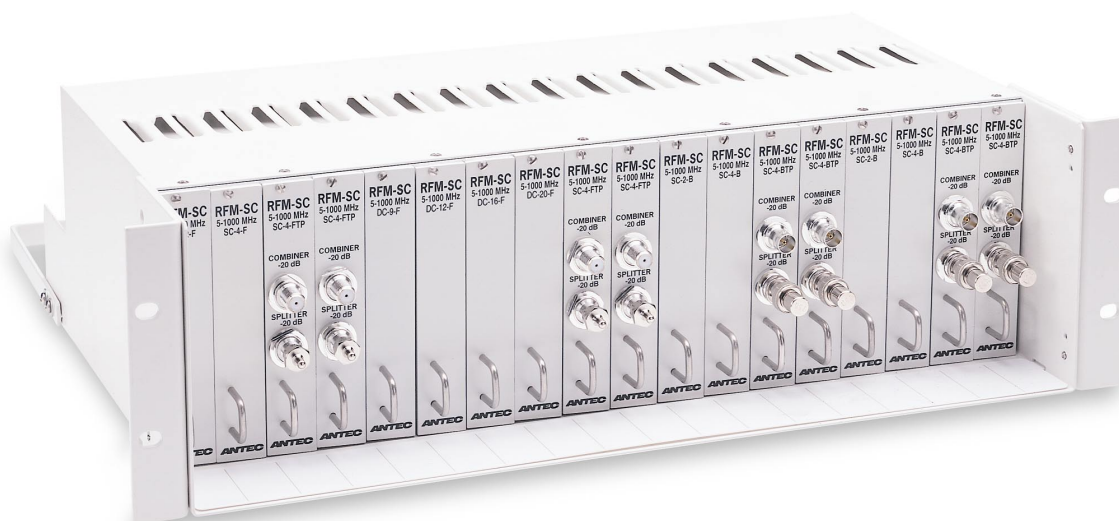


The RF Integrator platform was designed to be cost-effective, use minimal rack space and improve reliability in the headends/ hubs. It allows passive and active modules to be configured in the same chassis for overall system efficiency.

- Capable of testing combiner's output
- Passive/active chassis
- Expandable platform
- Flexible configurations
- Efficient use of space
- Easy installation
- High performance



RF LINK™

RF INTEGRATOR® (PASSIVES)

FEATURES

- Dual test point allows for testing of combiner's output¹
- Front loaded, modular splitters, combiners and directional couplers
- 3 RU (5.25") contains 18 modules
- 5 MHz – 1 GHz bandwidth
- Precision BNC or F connectors
- 360° center conductor
- 0.925" connector spacing
- Surge protection
- Cable retainer on each chassis
- Front or projection mounting chassis

SPECIFICATIONS

Splitters/Combiners Without Test Point¹					
Frequency (MHz)	5-10	10-50	50-750	750-870	870-1000
Frequency Response (dB)	±0.50	±0.50	±0.50	±0.50	±0.50
Return Loss (Min.) (dB)	18	20	20	20	19
Port-to-Port Isolation (Min.) (dB)	25	28	30	30	26
Insertion Loss (Max.) (dB)					
2-way (dB)	3.7	3.6	3.8	3.9	4.2
4-way (dB)	7.7	7.5	7.8	8.1	8.5
8-way (dB)	11.6	11.4	12.3	12.6	13.2
16-way ² (dB)	16.0	15.7	16.2	16.5	17.0
Splitters/Combiners with Dual Test Point¹					
Frequency (MHz)	5-10	10-50	50-750	750-870	870-1000
Frequency Response (dB)	±0.50	±0.50	±0.50	±0.50	±0.50
Return Loss (Min.) (dB)	18	20	20	20	19
Port-to-Port Isolation (Min.) (dB)	25	28	30	30	26
Insertion Loss (Max.) (dB)					
4-way (dB)	8.4	8.3	8.4	8.7	9.2
8-way (dB)	12.5	12.3	12.4	12.8	13.6
16-way ² (dB)	16.7	16.4	17.0	17.4	17.7
Test Point Level (±1.0)	-20	-20	-20	-20	-20
Gain Slope Module					
Frequency (MHz)	5-200	201-400	401-600	601-800	801-1000
Insertion Loss (5-200 MHz) (dB)	1.4	1.6	1.8	2.0	2.2

Note 1: Patent Pending

Note 2: 16-way splitter/combiner comes in a 1 RU chassis

Specifications are subject to change without notice.

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SPECIFICATIONS (cont.)

Frequency Response (dB)	±0.6
Return Loss (Min.) (dB)	17
Test Point (Ref. to Output) (dB) (± 0.7)	20
Test Point Response (dB)	±0.7
Test Point Return Loss (Min.) (dB)	17

Physical

Operating Temperature °F (°C)	32-122 (0-50)
Relative Humidity	0-95%
Mounting	Installs into RF Integrator Chassis

Directional Couplers

Frequency (MHz)	5-10	10-50	50-750	750-870	870-1000
Tap Loss Tolerance					
6 dB	±0.50	±0.50	±0.50	±0.60	±0.70
9 dB	±0.50	±0.50	±0.50	±0.60	±0.70
12 dB	±0.50	±0.50	±0.50	±0.60	±0.70
16 dB	±0.50	±0.50	±0.50	±0.60	±0.70
20 ¹ dB	±0.50	±0.50	±0.50	±0.60	±0.70
Insertion Loss (Max.)					
6 dB	2.1	2.0	2.6	2.8	3.0
9 dB	1.4	1.3	1.6	1.8	2.0
12 dB	0.9	0.9	1.2	1.3	1.4
16 dB	0.8	0.7	1.0	1.1	1.2
20 ¹ dB	0.8	0.7	1.0	1.1	1.2
Return Loss (Min.)					
6 dB	16	17	18	19	18
9 dB	18	19	20	19	18
12 dB	18	19	20	19	18
16 dB	18	19	20	19	18
20 ¹ dB	18	19	20	19	18
Isolation: Out to Tap (Min.)					
6 dB	24	24	24	23	21
9 dB	27	28	28	28	25
12 dB	29	30	30	30	26
16 dB	31	32	32	32	27
20 ¹ dB	34	35	35	35	30

Note 1: 20 dB directional coupler available with the coupled port on rear or on the front as a test point module

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RF INTEGRATOR® (PASSIVES)

SPECIFICATIONS (cont.)

Power	
EMI Shielding (Min.) (dB)	100
Power Handling (dBmV)	65 (composite power through each device)
Physical	
Dimensions (H x W x D) in. (cm)	
Single Width Module	5.1 x 0.87 x 7 (12.95 x 2.21 x 17.78)
Weight lbs. (kg)	1.22 (.55)
Dual Width Module	5.1 x 1.6 x 7 (12.95 x 4.06 x 17.78)
Weight lbs. (kg)	1.58 (.72)
3 RU Chassis	5.25 x 17 x 11.75 (13.33 x 43.16 x 29.84)
Weight lbs. (kg)	9.40 (4.26)

ORDERING INFORMATION

Description	Model #	Part #
2-Way Splitter/Combiner with F Connector	RFM-SC-2-F	253400
2-Way Splitter/Combiner with F Connector and Test Point	RFM-SC-2-FTP	253495
4-Way Splitter/Combiner with F Connector	RFM-SC-4-F	253401
4-Way Splitter/Combiner with F Connector and Test Point ¹	RFM-SC-4-FTP	253402
8-Way Splitter/Combiner with F Connector	RFM-SC-8-F	253403
8-Way Splitter/Combiner with F Connector and Test Point ¹	RFM-SC-8-FTP	253404
16-Way Splitter/Combiner with F Connector ²	RFM-SC-16-F	253405
16-Way Splitter/Combiner with F Connector and Test Point ^{1, 2}	RFM-SC-16-FTP	253406
6 dB Directional Coupler with F Connector	RFM-DC-6-F	253463
9 dB Directional Coupler with F Connector	RFM-DC-9-F	253407
12 dB Directional Coupler with F Connector	RFM-DC-12-F	253408
16 dB Directional Coupler with F Connector	RFM-DC-16-F	253409
20 dB Directional Coupler with F Connector	RFM-DC-20-F	253473
20 dB Directional Coupler with F Connector and Test Point	RFM-DC-20-FTP	253410
3 RU Active/Passive Chassis for 19" Racks	RFM-3RU-19	253412
3 RU Active/Passive Chassis for 23" Racks	RFM-3RU-23	253425

Note 1: Patent Pending

Note 2: For use in 23" Racks, order 23" Rack-Mount Kit, part number 253466

Patch cables available upon request

Specifications are subject to change without notice.

RF LINK™

RF INTEGRATOR® (PASSIVES)



ORDERING INFORMATION

Description	Model #	Part #
2-Way Splitter/Combiner with BNC Connector	RFM-SC-2-B	253428
4-Way Splitter/Combiner with BNC Connector	RFM-SC-4-B	253429
4-Way Splitter/Combiner with BNC Connector and Test Point ¹	RFM-SC-4-BTP	253430
8-Way Splitter/Combiner with BNC Connector	RFM-SC-8-B	253431
8-Way Splitter/Combiner with BNC Connector and Test Point ¹	RFM-SC-8-BTP	253432
16-Way Splitter/Combiner with BNC Connector ²	RFM-SC-16-B	253433
16-Way Splitter/Combiner with BNC Connector and Test Point ^{1,2}	RFM-SC-16-BTP	253434
6 dB Directional Coupler with BNC Connector	RFM-DC-6-B	253464
9 dB Directional Coupler with BNC Connector	RFM-DC-9-B	253435
12 dB Directional Coupler with BNC Connector	RFM-DC-12-B	253436
16 dB Directional Coupler with BNC Connector	RFM-DC-16-B	253437
20 dB Directional Coupler with BNC Connector	RFM-DC-20-B	253474
20 dB Directional Coupler with BNC Connector and Test Point	RFM-DC-20-BTP	253438
Accessories	Model #	Part #
Termination 75 ohms – F Type	RFM-PAD-75-F	253455
Attenuation Pads w/F Connectors 3, 6, 8, 10, 12, 16, 20 dB	RFM-PAD-xx-F	253456-62
Termination 75 ohms – BNC Type	RFM-PAD-75-B	253449
Attenuation Pads w/BNC Type 3, 6, 10, 15, 20 dB	RFM-PAD-xx-B	253450-54
F Type Installation Tool – 12"	RFM-TL-12-F	253465
BNC Type Installation Tool – 12"	RFM-TL-12-B	253467
BNC Type Installation Tool – 12" Flex Shaft	RFM-TL-12F-B	253468
Instruction/Operation Manual	RFM-IO	253469
Blank Cover for 3 RU – Single Width	RFM-BC-3RU-SW	253448
Blank Cover for 3 RU – Dual Width	RFM-BC-3RU-DW	253481
Digicon® 59Q BNC Connector	RFM-BNC-59Q	253475
Digicon® BNC Connector Tool	RFM-TL-DIG	253476
Cable Stripper for 59Q Cable	RFM-CS-59Q	253483
Single CHT Wiring Harness	RFM-WH-SGL	253477
Dual CHT Wiring Harness	RFM-WH-DUL	253478
Single/Dual Combo CHT Wiring Harness	RFM-WH-SDC	253479

Note 1: Patent Pending

Note 2: For use in 23" Racks, order 23" Rack-Mount Kit, part number 253466

Patch cables available upon request