

# RF LINK™

## RF INTEGRATOR® (PASSIVES)

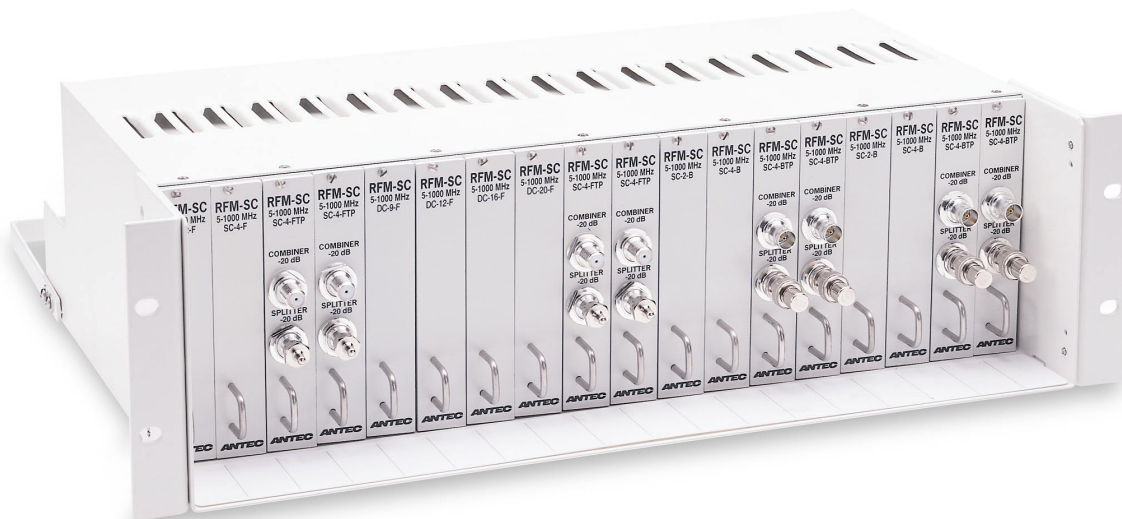
### APPLICATION

Allows for easy organization and maintenance at the headend or hub for expanding architectures. Ideal for quick system upgrades and for troubleshooting.

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.

### BENEFITS

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



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### FEATURES

- Dual test point allows for testing of combiner's output<sup>1</sup>
- 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

<b>Splitters/Combiners Without Test Point<sup>1</sup></b>					
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 <sup>2</sup> (dB)	16.0	15.7	16.2	16.5	17.0

<b>Splitters/Combiners with Dual Test Point<sup>1</sup></b>					
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 <sup>2</sup> (dB)	16.7	16.4	17.0	17.4	17.7
Test Point Level (±1.0)	-20	-20	-20	-20	-20

<b>Gain Slope Module</b>					
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 <sup>1</sup> 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 <sup>1</sup> 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 <sup>1</sup> 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 <sup>1</sup> 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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### SPECIFICATIONS (cont.)

<b>Power</b>	
EMI Shielding (Min.) (dB)	100
Power Handling (dBmV)	65 (composite power through each device)
<b>Physical</b>	
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

<b>Description</b>	<b>Model #</b>	<b>Part #</b>
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 <sup>1</sup>	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 <sup>1</sup>	RFM-SC-8-FTP	253404
16-Way Splitter/Combiner with F Connector <sup>2</sup>	RFM-SC-16-F	253405
16-Way Splitter/Combiner with F Connector and Test Point <sup>1,2</sup>	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

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## 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 <sup>1</sup>	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 <sup>1</sup>	RFM-SC-8-BTP	253432
16-Way Splitter/Combiner with BNC Connector <sup>2</sup>	RFM-SC-16-B	253433
16-Way Splitter/Combiner with BNC Connector and Test Point <sup>1,2</sup>	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
<b>Accessories</b>	<b>Model #</b>	<b>Part #</b>
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

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