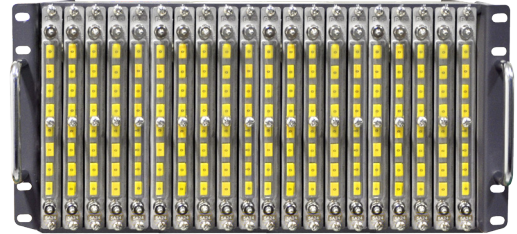


The Dense Intelligent Multi-Access (DIMA) is a headend splitter/combiner assembly in a 1RU or 5RU 19 inch chassis. Each module can integrate 3x double splitters, 2x four splitters or 1x eight splitters.

The DIMA platform is designed to operate as an RF splitter or combiner in both forward and return path configurations. It can be deployed in virtually any HFC environment and each port's link attenuation can be independently adjusted to balance RF levels.

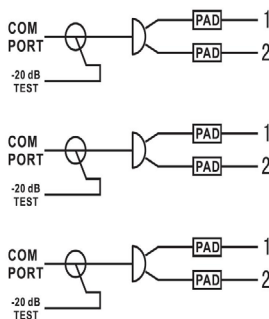
A single DIMA platform can be fitted with up to 160 input / output ports with every RF port having 1000 Vdc of voltage blocking. It also features excellent RF characteristics spanning 5 ~ 1218 MHz with each port having 30 dB of isolation.



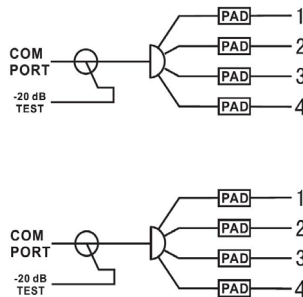
Key Features and Functions

- Excellent RF characteristics spanning the entire 5 ~ 1218 MHz range
- High density RF combiner or splitter with up to 160 input / output ports
- Test point (-20 dB)
- Plug-in attenuation pad on every port to balance RF port levels
- Isolation more than 30 dB per port
- Each RF port includes 1000 Vdc of voltage blocking
- Available module configurations:
 - 3 x 2
 - 2 x 4
 - 1 x 8

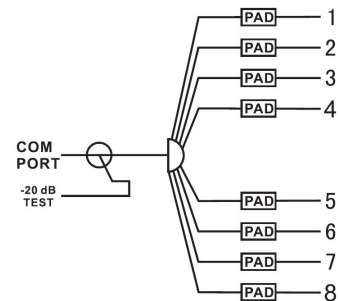
Block Diagram



D-DMOD-5A32
Splitter



D-DMOD-5A24
Splitter



D-DMOD-5A18
Splitter

Specifications

Performance ⁽¹⁾

Module	Frequency	DIMA-5A32	DIMA-5A24	DIMA-5A18
Bandwidth		5 ~ 1218 MHz	5 ~ 1218 MHz	5 ~ 1218 MHz
Flatness		± 0.5 dB	± 0.5 dB	± 0.5 dB
Splitter Insertion Loss	5 ~ 1000 MHz	4.5 dB	8.5 dB	12.2 dB
	1000 ~ 1218 MHz	5.0 dB	9.0 dB	13.0 dB
Test Point ⁽²⁾		-20 ± 1 dB	-20 ± 1 dB	-20 ± 1 dB
RF Return Loss ⁽³⁾	5 ~ 10 MHz	≥ 20 dB	≥ 18 dB	≥ 15 dB
	10 ~ 15 MHz	≥ 20 dB	≥ 20 dB	≥ 18 dB
	15 ~ 1218 MHz	≥ 20 dB	≥ 20 dB	≥ 20 dB
Isolation	5 ~ 10 MHz	≥ 21 dB	≥ 27 dB	≥ 28 dB
	10 ~ 15 MHz	≥ 25 dB	≥ 30 dB	≥ 30 dB
	15 ~ 1218 MHz	≥ 28 dB	≥ 30 dB	≥ 30 dB
DC Block		> 1000 Vdc	> 1000 Vdc	> 1000 Vdc

General

Temperature and Humidity	Working temperature	-5 °C ~ 55 °C
	Storage temperature	-30 °C ~ 80 °C
	Operating humidity	90 % (non-condensing)
	Storage humidity	90 % (non-condensing)
Chassis Dimensions (WxDxH)	5RU: 223 x 484 x 386 mm	
	1RU: 266 x 443 x 45.5 mm	
Module Dimensions (WxDxH)	22 x 130 x 220 mm	
	Chassis Weight	5RU: 3.0 kg
	1RU: 1.75 kg	
Module Weight	0.5 kg	
Module Connector	F-Type Connector	

Note:

(1) The not used ports are terminated by 75 ohm load.

(2) The test point is a unidirectional coupler used for monitoring the input of a splitter (5Axx); for 5Cxx, the test point's deviation may vary due to differences in insertion loss with different modules. Example: 5Axx: -20 ± 1 dB; 5Cxx: -(20 + module insertion loss) ± 1 dB.

(3) Minimum between all the ports.

Order Details

Chassis:

D-DCHA-[Z] DIMA Chassis

Options:

Z	Height	
5U	5RU height chassis holding up to 20 DIMA modules	
1U	1RU height chassis holding up to 4 DIMA modules	

Splitters and Combiners:

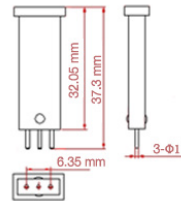
D-DMOD-5[X][Y]-[Z] DIMA Modules

Options:

X	Function	Y	Configurations	Z	Bandwidth
A	Splitter	24	2 x 4-way	12	5 ~ 1218 MHz
C	Combiner	32	3 x 2-way		
		18	1 x 8-way		

Plug-in Attenuation Pad:

D-DMOD-ATT1-xx xx = 0 dB to 20 dB in 1 dB increments



* 3 pins with a diameter of 1 mm each

Examples

D-DCHA-5U	DIMA Chassis 20-slots, 5RU height
D-DCHA-1U	DIMA Chassis 4-slots, 1RU height
D-DMOD-5A18-12	DIMA Splitter module, 1 x 8-way, 13 dB attenuation, 5 ~ 1218 MHz
D-DMOD-5A24-12	DIMA Splitter module, 2 x 4-way, 9 dB attenuation, 5 ~ 1218 MHz
D-DMOD-5A32-12	DIMA Splitter module, 3 x 2-way, 5 dB attenuation, 5 ~ 1218 MHz
D-DMOD-5C18-12	DIMA Combiner module, 1 x 8-way, 13 dB attenuation, 5 ~ 1218 MHz
D-DMOD-5C24-12	DIMA Combiner module, 2 x 4-way, 9 dB attenuation, 5 ~ 1218 MHz
D-DMOD-5C32-12	DIMA Combiner module, 3 x 2-way, 4.5 dB attenuation, 5 ~ 1218 MHz