

DOCSIS 3.1 Compliant

Designed with expanded bandwidth for modern applications

Features & Benefits

- Comparative to other manufacturers the HPS Series modules are engineered for best in class performance in port-to-port isolation, return loss, and frequency response within the working frequency range of 5-1218 MHz
- HPS "XJ" Series Modules offer a minimum - 30dB port-to-port isolation and minimum return loss specification of 20dB.
- All HPS Series modules offer excellent flatness of insertion loss in the frequency range of 5-1218 MHz which is ideal for channel bonding transmission and receiving.
- High flatness of Insertion Loss characteristics in channel spacing from 24 MHz to 192 MHz
- Our very competitive pricing structure allows customers to realize significant cost savings.
- CommDev offers JXP attenuators or JXP equalizers according Customer's Request:
 1. 0 - 20dB with 1dB Step—JXP ATT
 2. 0 - 18dB with 1.5dB Step—JXP EQ
- The CommDev passive modules are installation compatible with CommDev HPS, Maxnet or Signal-On Chassis

THREE YEAR PARTS AND LABOR WARRANTY INCLUDED

CommDev now offers an all new Advanced Series of Head End Passive Modules designated as Series "XJ". These all new series include a variety of module's configurations includes multiport Splitter, Combiners and Directional Couplers to fit the standard HPS Series 1RU, 2RU or 5RU Chassis.

The new **HPS "XJ" Series** of passive modules provide RF signal management solutions for modern CATV Head-end or Hub site applications to meet the requirements of DOCSIS 3.1 standards.

The operating frequency range of "**XJ**" Series extends up to 1218 MHz and modules are available in a variety of configurations. Modules are designed as universal or "bi-directional splitters/combiners", or as specialized unidirectional combiners or splitters featuring -20 dB test port. All module configurations are optimized for best performance in a designated frequency range. Modules can also be specified as "flat" with a built in equalizer and "regular" without an equalizer for systems using external equalization.

The internal customized circuit design provides a socket for insertion either a JXP attenuators or JXP equalizers on each Output Ports. For Single 8-way, Dual 4-Way, and Triple 2-way splitters or combiners we offer:

- 1dB step JXP Attenuator at Each Output Port from 0dB to 20dB value
- 1.5dB step JXP Equalizer at Each Output Port from 0dB to 18dB value.

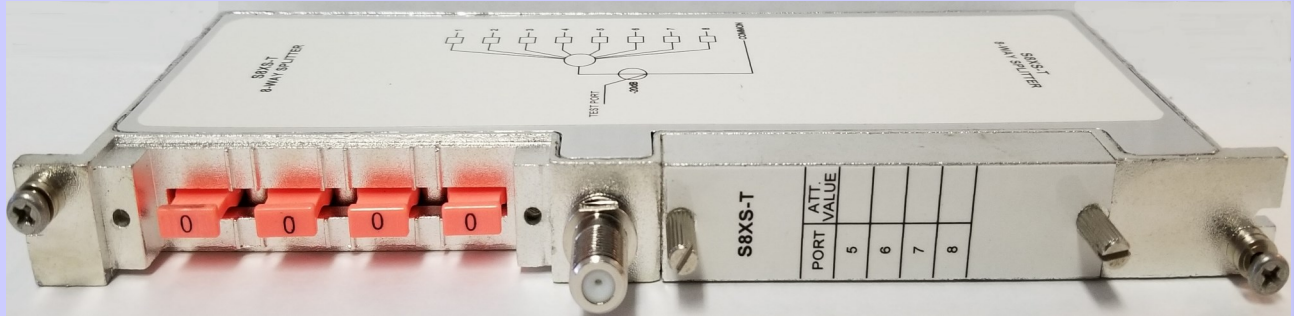
The internal equalization feature will insure an ultra flat response (better ± 0.25 dB) within channel spacing from 24 MHz to 192 MHz or beyond.

To maximize utilization of rack space the 2- and 4-way models are packaged by three and two correspondingly while occupying a single slot in the modular chassis. Directional couplers with customized attenuation at Coupled Port are also available and packaged by three in a single housing. Modular passives are designed with internal walls which prevent any cross talk, while the cover of the unit is completely solder sealed to minimize RFI.

All modules feature anti-corrosive plating, nickel plated machine brass connectors (comply with SCTE Standards).

Please contact us for additional technical support and product information.

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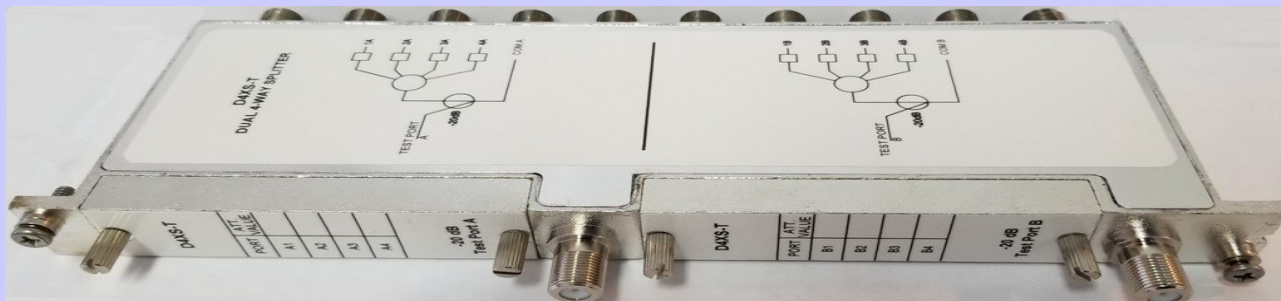


Insertion Loss

(Maximum Values Shown, Typical Values are 0.2-to-0.5dB Better)

Module Type	Model #	Frequency					
		5 - 10MHz	10 - 48MHz	48 - 550MHz	550 - 870MHz	870 - 1002 MHz	1002- 1218 MHz
Combiner	S8XC-TJ	10.9dB	10.6dB	11.2dB	11.8dB	12.3dB	13.3dB
Splitter	S8XS-TJ	10.9dB	10.6dB	11.2dB	11.8dB	12.3dB	13.3dB
Universal	S8XU-J	10.1dB	10.0dB	10.4dB	11.1dB	11.4dB	12.0dB
Combiner	D4XC-TJ	7.6dB	7.4dB	7.6dB	8.1dB	8.5dB	9.5dB
Splitter	D4XS-TJ	7.6dB	7.4dB	7.6dB	8.1dB	8.5dB	9.5dB
Universal	D4XU-J	6.8dB	6.7dB	7.1dB	7.6dB	7.7dB	8.3dB
Combiner	T2XC-TJ	3.9dB	3.9dB	4.1dB	4.5dB	4.3dB	5.1dB
Splitter	T2XS-TJ	3.9dB	3.9dB	4.1dB	4.5dB	4.3dB	5.1dB
Universal	T2XU-J	3.5dB	3.5dB	3.8dB	4.1dB	4.3dB	4.6dB

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Return Loss all "In" or "Out" Ports

Model	Frequency					
	5MHz ← → 1218MHz					
	5 - 10MHz	10 - 48MHz	48 - 200MHz	200 - 750MHz	870 - 1000MHz	1000 - 1218MHz
All Modules	18dB	20dB	20dB	20dB	20dB	20dB

Isolation Port to Port

(Minimum Values Shown, Typical Values are 3-to-5dB Better)

Module Type	Model #	Frequency					
		5MHz ← → 1218MHz					
		5 - 10MHz	10 - 48MHz	48 - 200MHz	200 - 750MHz	870 - 1000MHz	1000 - 1218MHz
Combiner	S8XC-TJ	30dB	30dB	30dB	30dB	30dB	30dB
Splitter	S8XS-TJ	30dB	30dB	30dB	30dB	30dB	30dB
Universal	S8XU-J	29dB	30dB	30dB	30dB	30dB	30dB
Combiner	D4XC-TJ	30dB	30dB	30dB	30dB	30dB	30dB
Splitter	D4XS-TJ	30dB	30dB	30dB	30dB	30dB	30dB
Universal	D4XU-J	30dB	30dB	30dB	30dB	30dB	30dB
Combiner	T2XC-TJ	29dB	30dB	30dB	30dB	30dB	30dB
Splitter	T2XS-TJ	29dB	30dB	30dB	30dB	30dB	30dB
Universal	T2XU-J	29dB	30dB	30dB	30dB	30dB	30dB

"XS" Series Passive Module Model with Step Attenuators Part Number Reference

First	Second	Third	Fourth	Fifth	Sixth	Seventh
"T" Triple	"2" 2-way	"X" Broadband Modular Passives with Frequency band 5-1218MHz	"S" Splitter	"T" Test Port	"E" Equalizer	"S" - Step Attenuators "J"-JXP Attenuator
"D" Dual	"4" 4-way		"C" Combiner	-20 dB±0.5dB		
"S" Single	"8" 8-way		"U" Universal			
"DC" Directional Coupler						