





Overview:

- · Splits a single signal into two outputs
- Low loss
- Support for 12G/6G/3G/HD/SD-SDI and ASI digital video formats
- Supports AES3i and MADI digital audio formats
- Passive device
- Very high performance and fault-tolerant design
- Ultra compact units in standalone or 1RU rack mount versions

Application:

- Low cost 1 to 2 distribution amplifier. Multiple units to achieve 1 to 4, 1 to 8 etc.
- Signal split for dual-redundant signal processing architectures
- Simple monitoring split from main signal feed

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Description:

These signal splitters conveniently split a single source into two signals for distribution with minimal loss. Since it is a passive device there is no requirement for power. These high performance devices are fault tolerant, such that a cable fault, short-circuit, or improper termination on one output does not affect the other.

They provide a convenient method for allowing a single source to be connected to multiple equipment inputs, where a loop-through is not available, or a monitor feed is required. They can also be used where redundant paths are required and since these units do not require any power to operate they provide excellent reliability.

The splitters are available in a compact single channel unit, or multiple channels in a 1RU rack unit. The rack unit is available in 6 and 12-channel variants with rear or front only connectors and in 10 and 20-channel versions with front to rear, or rear to front routing.

The splitter range supports all of the SMPTE digital video and AES digital audio transmission rates and so are compatible with 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI and ASI along with signals conforming to AES3i and MADI.

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Specifications:

Model		AS275	HS275	3S275	WS275	6S275	US275			
Mode	1:2									
Impedance	(typ)	75Ω								
Freqency	(min)	2MHz	10MHz	50MHz	2MHz	DC	1.5GHz			
	(max)	500MHz	1.5GHz	3GHz	3GHz	6.8GHz	12.5GHz			
Compatibility		AES3i			AES3i	AES3i				
		MADI			MADI	MADI				
			ASI	ASI	ASI	ASI				
			SD-SDI	SD-SDI	SD-SDI	SD-SDI				
			HD-SDI	HD-SDI	HD-SDI	HD-SDI	HD-SDI			
				3G-SDI	3G-SDI	3G-SDI	3G-SDI			
						6G-SDI	6G-SDI			
							12G-SDI			
Power	(typ)	1.0W	0.5W	0.5W	0.5W	0.5W	1.85W			
Return Loss	(typ)	26.4dB	21.2dB	11.1dB	17.6dB	16.7dB	16.4dB			
Insertion Loss	(typ)	0.35dB	0.6dB	0.9dB	1.1dB	0.8dB	1.8dB			
Total Loss	(typ)	3.35dB	3.6dB	3.9dB	4.3dB	10.3dB	4.8dB			
Amplitude Imbalance	(typ)	0.2dB	0.6dB	0.8dB	0.4dB	0.3dB	0.7dB			
Phase Imbalance	(typ)	2 deg	3 deg	6.5 deg	4 deg	3 deg	6 deg			
Output Isolation	(min)	35dB	28dB	21dB	22dB	19dB	16dB			
Channel Isolation	(standalone)	Not Applicable								
	(rack mount)	85dB	83.2dB	77.5dB	78.1dB	73.2dB	16dB			
Size	(standalone)	37mm x 34mm x 22mm (1.46" x 1.34" x 0.87"), excluding connectors								
	(rack mount)	19" x 1RU x 37mm (1.46") max, excluding connectors								
Weight	(standalone)	43g : 1.5oz								
	(rack mount)	165g + (42g * num chans): 6oz + (1.5oz * num chans)								
Environmental		-25 to +55 deg C [32 to 131 deg F], 5%-95% non-condensing								
		EN55103-1, EN55103, EN6095, FCC part 15								

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Ordering Information:

			Part Number						
		Prefix	Suffix						
Туре	Configuration								
			1	6	10	12	20		
AS275	AS275 Standalone		-01S						
	Rack Mounting - Front Panel IO	AS275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	AS275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs Rack Mounting - Rear Inputs, Front Outputs				-10F		-20F		
					-10R		-20R		
HS275	S275 Standalone		-01S						
	Rack Mounting - Front Panel IO	HS275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	HS275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs	HS275B			-10F		-20F		
	Rack Mounting - Rear Inputs, Front Outputs	HS275B			-10R		-20R		
3S275	Standalone	3S275B	-01S						
	Rack Mounting - Front Panel IO	3S275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	3S275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs	3S275B			-10F		-20F		
	Rack Mounting - Rear Inputs, Front Outputs	3S275B			-10R		-20R		
WS275	Standalone	WS275B	-01S						
	Rack Mounting - Front Panel IO	WS275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	WS275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs	WS275B			-10F		-20F		
	Rack Mounting - Rear Inputs, Front Outputs	WS275B			-10R		-20R		
6S275	Standalone	6S275B	-01S						
	Rack Mounting - Front Panel IO	6S275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	6S275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs	6S275B			-10F		-20F		
	Rack Mounting - Rear Inputs, Front Outputs	6S275B			-10R		-20R		
US275	Rack Mounting - Standalone	US275B	-01S						
	Rack Mounting - Front Panel IO	US275B		-06F		-12F			
	Rack Mounting - Rear Panel IO	US275B		-06R		-12R			
	Rack Mounting - Front Inputs, Rear Outputs	US275B			-10F		-20F		
	Rack Mounting - Rear Inputs, Front Outputs	US275B			-10R		-20R		

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