## Transmitter Combiners 700-1000 Transmitter Combiners TJA4 Series

## A Norsat Company Norsat

## TJA4 SERIES Auto-tunable combiner, 763-869 MHz

- Fully automated in detecting and tuning each channel to Tx frequency for flexible applications
- Comprehensive remote alarm monitoring
- Minimum Tx-Tx frequency spacing of 250kHz and wide tuning range
- Low insertion loss and high isolation

The new TJA series combiner features an integrated control unit for fully autonomous frequency tuning to keep return loss to a minimum and optimize overall performance. This allows the combiner to be used in unconventional ways to satisfy customers' unique needs.

The TJA combiner is designed with high unloaded quality factor, wide tuning range, high linearity, high power handling, low weight, compact dimension, and outstanding reliability. Remote control and system monitoring are supported via Ethernet/IP connection.

The compact design of the cavity filters makes the 2-channel module easily fit into a standard 4U high, 19-inch rack. Specifically, the TJA4 series covers 763-776 and 851-869 MHz and comes in 2, 4, 6, or 8 channel configurations. Higher channel numbers are available, please call for details.



- \* Quick tuning time: 10 seconds for each channel (typical)
- \* Wide tuning range: 20 MHz (5 MHz for 4 channel and up)
- \* Outstanding tunning accuracy: +/- 15 kHz
- \* Comprehensive remote alarm monitoring including frequency, power, return loss, as well as antenna Tx power and VSWR of each carrier.
- \* Tx-Tx spacing down to 250 kHz
- \* User-friendly web-based GUI
- \* Secure user administration with RBAC feature to manage users and their access rights



2 channel model shown

Region	United States	tes Europe, Middle East, and Africa Canada, Caribbean, and Latin America		Asia-Pacific	
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Product Specification Sheet		TJA4	Issue 2.0	Dated: 10-13-2023	



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Α	Norsat	Company	n	Norsat
				International Inc.

Electrical										
Channel		2 CH		4 CH		6 CH		8 CH		Note
Part number		TJA4232-1	TJA4232-2	TJA4234-1	TJA4234-2	TJA4236-1	TJA4236-2	TJA4238-1	TJA4238-2	
Frequency range (MHz)		763-776	851-869	763-776	851-869	763-776	851-869	763-776	851-869	
Tunning range (MHz)		13	18	5	5	5	5	5	5	
Automatic Tx frequency detection		Yes								
Automatic re-	tuning				Y	es				
VSWR	Input	< 1.25 : 1								
VOVVIX	Output	< 2.0 : 1								
Insertion loss	, Tx to Ant	≤ 3.	9 dB	≤ 4.	9 dB	≤ 5.	5 dB	≤ 6	6 dB	
Frequency	Max		See above Tuning Range							
separation	Min	250 kHz								
Isolation	Tx to Tx	65 dB								
(Min) Ant to Tx				55 dB						
Input power p	er channel	25 to 125 Watt								
Networking interface		RJ45								
Connector	Input	N-female <sup>1</sup> See							See	
Connector Output		N-female <sup>1</sup>							below	
Power supply voltage		12 VDC <sup>2</sup>								
Mechanica	al									
Width					19" (4	83mm)				
Depth		22.2" (564mm) <sup>3</sup>							See below	
Height		7" (17	'8mm)	14" (3	56mm)	21" (5	33mm)	28" (6	86mm)	
Weight		29.5 lbs	(13.4kg)	59.5 lbs	s (27kg)	89 lbs (	(40.4kg)	119 lbs	s (54kg)	
Shipping dimensions		30 x 22.	5 x 11 in	30 x 22.	5 x 18 in	one 30 x 2	ckages: 2.5 x 11 in; 2.5 x 18 in		ckages, 22.5 x 18 in	
Total shipping weight		56 lbs (	25.4kg)	95 lbs	(43kg)	152 lbs	s (69kg)	190 lbs	s (86kg)	
Mounting		,	~,	•	EIA 19	9" rack	· <del>·</del>	•	· <del>· ·</del>	
Operational Temperature range		-22 to +140 °F (-30 to +60 °C)								

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## Note

- 1. Other options available, call for details.
- 2. Other options available, call for details.
- 3. Excluding connector & harness
- 4. Specify the exact frequency range when ordering.

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