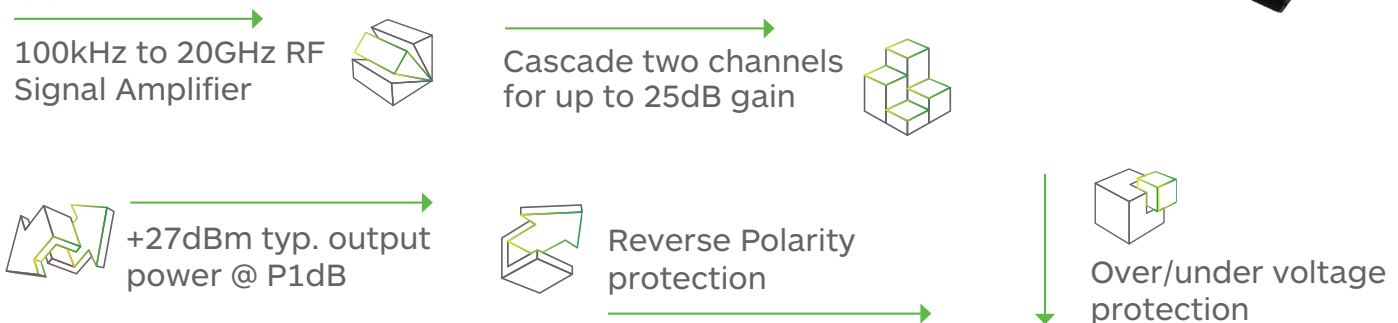


# PRELIMINARY

## MODEL TE3201/2

### PXIe based Single/Dual Channel 20GHz 30dBm RF amplifier

Model TE3201/2 is a single/dual channel RF amplifier in a single slot PXIe form factor that can operate from 100kHz to 20GHz, designed for high frequency, and high power signal amplification. With an ultra-high bandwidth of almost 20GHz and up to +30dBm power into 50 ohms, the TE3201/2 is the ideal complimentary amplifier to any signal source that needs an extended power boost for demanding applications.



### Enhancing Performance

The TE3201/2 was designed to extend the power range of the Tabor arbitrary waveform generators and RF signal generators for applications, requiring a higher output power to drive their DUT (Device Under Test). With the channels cascaded the TE3201/2 can provide up to 25dB gain and can reach a maximum saturated power of 30dBm into 50 ohms loads, without compromising signal integrity.

### Cost Effective Versatile Solution

While the TE3201/2 was designed with the Tabor units in mind, it can be used as a Standalone RF amplifier for any signal source. The TE3201/2 offers one or two channels in a compact and cost-effective solution for extending any signal source's power performance.

### Target Applications

Target applications for the TE3201/2 are diverse and include various RF applications, such as receiver testing, multi-tone testing, and general electronics and scientific applications. The new TE3201/2 is an ideal solution for virtually any wide bandwidth application that requires high power and high frequency signal amplification.

# MODEL TE3201/2

# PRELIMINARY

## PXIe based Single/Dual Channel 20GHz 30dBm RF amplifier

### Specification

RF CHARACTERISTICS			
<b>RF Connectors:</b>	2.92mm(K)		
<b>Frequency Range:</b>	100kHz to 20GHz		
<b>Gain (in dB): Single Channel in TE3201/2</b>	Min.	Typ.	Max.
100kHz to 100MHz:	10	12	14
100MHz to 3GHz:	10	12.5	13
3GHz to 9GHz:	8	10	11
9GHz to 20GHz:	6	8	9.5
<b>Gain (in dB): Cascaded Channels of TE3202</b>	Min.	Typ.	Max.
100kHz to 100MHz:	25	26	27
100MHz to 3GHz:	20	21	27
3GHz to 9GHz:	16	19	22
9GHz to 20GHz:	12	14	17
<b>Input Return Loss:</b>	14dB typ. (9dB Min.)		
<b>Output Return Loss:</b>	12dB typ. (6dB Min.)		
<b>P1dB:</b>	26dBm		
<b>Psat:</b>	29dBm		
<b>Output IP3:</b>	35dBm		
<b>Noise Figure:</b>	10dB		
<b>Reverse Isolation:</b>	50dB typ. (35dB Min.)		
<b>Second Harmonic:</b>	20dBc @ Pout +25 dBm		



<b>RF Input Power:</b>	
TE3201	20dBm Max.
TE3202	10dBm Max.
<b>Protection:</b>	Reverse Polarity, Over Voltage, Under Voltage, Over Current, and Open-Short Load

GENERAL	
<b>Voltage:</b>	+12V
<b>Current Consumption:</b>	
TE3201	+12V 1A
TE3202	+12V 2A
<b>Power Dissipation:</b>	
TE3201	11W typ.
TE3202	22W typ.
<b>Dimensions:</b>	Single slot PXIe
<b>Weight:</b>	
Without Package:	0.5 Kg
Shipping Weight:	1.5 Kg
<b>Temperature:</b>	
Operating:	0°C to +50°C
Storage:	-40°C to +70°C
<b>Warm up time:</b>	15 minutes
<b>Humidity:</b>	85% RH, non-condensing
<b>Safety:</b>	CE Marked, IEC61010-1:2010
<b>EMC:</b>	IEC 61326-1:2013
<b>Calibration:</b>	2 years
<b>Warranty*:</b>	3 year standard * 1 year standard in India

ORDERING INFORMATION	
<b>MODEL</b>	<b>DESCRIPTION</b>
TE3201	PXIe based Single Channel 20GHz
TE3202	PXIe based Dual Channel 20GHz 30dBm RF amplifier
CAS	Jumper cable for TE3202 for cascading CH1 and CH2

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