

YST-6061 Vector Signal Transceiver

At a Glance

The YST-6061 series PXIe RF vector signal transceiver module integrates the functions of RF wide-band vector signal reception and generation. With high integration and flexibility in usage, it supports PXIe system modular reconfigurable configurations.

The frequency range covers 300 MHz to 6 GHz, with a maximum instantaneous signal bandwidth of up to 1 GHz. It features versatile general modulation and demodulation capabilities, as well as 3GPP standard communication modulation and demodulation functionalities. Optional hardware modulation and demodulation capabilities are available, providing the required performance to rapidly and efficiently address RF chip testing challenges both now and in the future.



Technical Specifications

Category	Parameter	Specification	Notes
General Characteristics	Product Model	YST-6061	PXIe Module
	Frequency Range	300 MHz - 6 GHz	
	RF Channel	1 In / 1 Out	
	Instantaneous Bandwidth	200 MHz / 500 MHz	Up to 1 GHz (See Opt.)
	Max Input Power	$\leq +30$ dBm	
	Max Output Power	$\leq +20$ dBm	
	Physical Characteristics	3U 2 Slots	210 x 40.3 x 128.65 mm, 1 kg
RF Signal Analysis	Amplitude Accuracy	± 1 dB	
	Average Noise Floor	-150 dBm/Hz	
	Phase Noise	-102 dBc/Hz	@ 960 MHz, 10 kHz offset
	Max Sample Rate	1.25 GS/s	
	Supported Modulation	ASK / PSK / QAM	Universal Modem
RF Signal Generation	Output Amp. Accuracy	± 1 dB	
	Output Signal Resolution	0.01 dB	
	Phase Noise	-102 dBc/Hz	@ 960 MHz, 10 kHz offset
	Output Harmonics	≤ -48 dBc	
	Noise Floor	-152 dBm/Hz	
	Max Storage Depth	1 G Sa	I/Q Separately 500 M Sa
	EVM	≤ -40 dB	20 MHz, 64QAM Modulation
Additional Information: The data in this table represents typical test values in a specific calibration environment. Reliable grounding is advised; leakage current must be ≤ 10 μ A for safe operation.			

Ordering Information

Category	Model	Description
Main Hardware & Upgrades	YST-6061	RF Broadband Transceiver (300 MHz - 6 GHz, 200 MHz BW)
	YST-U500	Instantaneous Bandwidth Upgrade Option (up to 500 MHz)
Measurement Options	YST-K11	WIFI Basic Measurement Option
	YST-K12	WIFI 6 Measurement Option
	YST-K21	Bluetooth Basic Measurement Option
	YST-K22	Bluetooth 5.0 Measurement Option
	YST-K31	LTE Measurement Option Capabilities
	YST-K41	NR Measurement Option Capabilities
Waveform Libraries	YST-W11	WIFI Waveform Library
	YST-W21	Bluetooth Waveform Library
	YST-W31	LTE Waveform Library
	YST-W41	NR Waveform Library

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Specifications subject to change without notice. Per AS/NZS standards.

