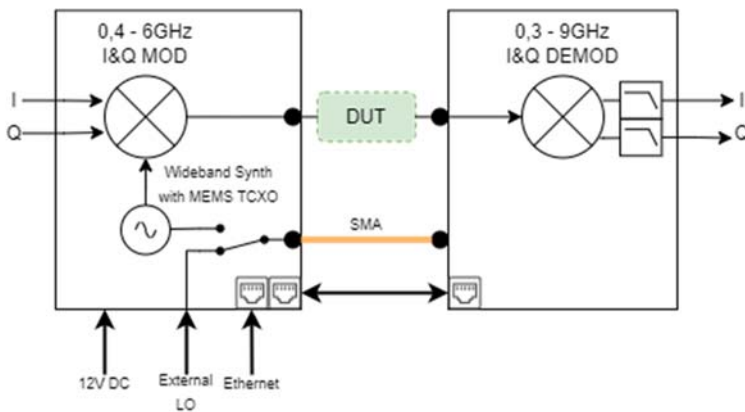


Block Diagram



Features

- I&Q Vector Modulator
- I&Q Vector Demodulator
- Ultra-stable LO Generator
- IP control via Ethernet
- Daisy chain of data and power
- RF band: 400MHz ÷ 6GHz
- IF band: DC – 600MHz
- Support for External LO

Description

AS-00122-A is full featured bundle including:

- N.1 I&Q Vector Modulator 0,4GHz ÷ 6GHz, with ultra-stable synthesizer. AS-00113-A
- N.1 I&Q Vector Demodulator 0,3GHz ÷ 9GHz. AS-00114-A

The AS-00122-A is designed to be directly connected with I&Q signal generator, generate an RF modulated signal using the internal synthesizer to excite a DUT an demodulate the DUT output signal.

The AS-00122-A is extremely compact since the command data and power is relayed from the Modulator to the Demodulator; just two cables are needed to control and power both the modules. The Modulator, AS-00113-A, is equipped with I&Q DAC in order to generate DC offset for SSB nulling; the user can optime SSB suppression by its own using the control commands.

The Demodulator, AS-00114-A, is equipped with I&Q low pass filters to guarantee a good rejection before the ADC. Moreover, the AS-00114-A is equipped with user controllable variable gain amplifiers to adjust the demodulated signal amplitude to the ADC used for digital conversion.

The AS-00114-A supports external LO instead of the internal synthesized one. With this feature the user can select and use exactly the same LO source to be used in the target application.

Module Specifications *

Parameter	Typ.	Unit
RF Operating Frequencies	0,4 ÷ 6	GHz
I&Q bandwidth	Up to 600MHz	
Synthesizer	MOD On board Digitally controlled	
External LO	0,4 ÷ 6	GHz
RF I/O Interfaces	SMA FEM	
Data Interface	Ethernet RJ45	
Data protocol	Serial-over-IP	
Input Power	9 - 14V	
Single Module Dimensions (AS-00112-A, AS-00113-A)	17 x 15 x 3 (L x W x H)	cm

**Specification may change without notice*