

AJ Test Equipment (Jamming Signal Generator)

HYJ3810

General Description

- HYJ3810 AJ test equipment is designed to support all GPS anti-jamming test requirements.
- HYJ3810 is for the susceptibility test of GNSS receivers to jamming such as CW, pulse, noise and any other imaginable interferences.
- Modular approach provides for expandability with additional programmable generators independently for GPS L1, L2 or GLONASS L1.
- HYJ3810 is the best solution for testing the susceptibility of GNSS receivers on intentional or unintentional interferences, the performance of which is a significant requirement for airborne, automotive, defense, and mobile phone applications.



Electrical Specifications

ITEM	Specifications	Remarks(Opt.)
Control	External CDU/ Profile Setting & Stand Alone Operation	
Interface	Ethernet / RS232	
Output Power Range	-80dBm ~-20dBm	CW basis
Power Control Step	1.0dB	
Output VSWR	Max. 2:1	
Real Time Clock	Internal	
RF Output	Single Output: GPS L1	GPS L2 GLONASS L1
Jamming Signal	CW, AM,FM, Pulse, C/A code, AWGN, Multi-tone, Sweep CW , Delay Repeating	
DC Supply Voltage	AC 220V	
Uniqueness	Multi RFI(Programmable RFI)	

Mechanical Specifications

ITEM	Specifications	Remarks
Size	19" 2U Rack	
Connector	SMA(TNC) Female	RF Out / GNSS In
Display LCD	87.6*26	mm



Jamming Signal Specifications

Jamming Signal	Specifications	Center Frequency	Remarks(Opt.)
CW	Max. Output Power: -20dBm	1575.42 (± 4)MHz	1227.6 (± 4)MHz 1602 (± 4)MHz
Sweep CW	Sweep Speed: < 1us Peak Power: -20dBm	1575.42 (± 4)MHz	1227.6 (± 4)MHz 1602 (± 4)MHz
Multi-tone	Frequency Deviation: Selectable Max. 10EA	1575.42 (± 4)MHz	1227.6 (± 4)MHz 1602 (± 4)MHz
Pulse	Duty Cycle: 10~90%(Random) PRR: 2kHz~4MHz	1575.42 MHz	1227.6 MHz 1602 MHz
FM	Modulation Index, Frequency Deviation: Selectable Arbitrary Signal	1575.42 MHz	1227.6 MHz 1602 MHz
AM	Arbitrary Signal	1575.42 MHz	1227.6 MHz 1602 MHz
C/A Code	PRN: 1~32(Auto Change) Channel Power: 0dBm	1575.42 (± 4)MHz	1227.6 (± 4)MHz 1602 (± 4)MHz
AWGN	Channel Power: -30dBm	1575.42(± 10)MHz	1227.6 (± 10)MHz 1602 (± 10)MHz
Delay Repeating	Delay: 0~3.3ms Arbitrary Power control	1575.42 MHz	1227.6 MHz 1602 MHz

General

Description	Specification	Remarks
Operating System	External CDU	Desktop, Laptop
Remote Interface	Ethernet/RS232	
External Reference	10 MHz	

Ordering information

Part Number	Description
HYJ3810	GPS L1 Jamming Signal Generator (GPS L1 Delay Repeater)
Opt.1	GPS L2
Opt.2	GLONASS L1
Opt.3	GPS L2. GLONASS L1 Delay Repeater

CDU

