

## TS-2950 TS-2950-01

Basic model with up to four expansion boards

















### TS-2950-10 TS-2950-11

Compatible with 10 MHz signal output from rubidium transmitter















# TS-2950-20 TS-2950-21

Compatible with BB and Tri-levelSync signal



TS-2950-XY















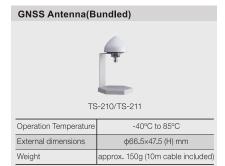








X=0 Basic Model X=1 10MHz Model X=2 Black Burst Y=0 CSAC Model Y=1 OCXO Model



TS-1550 Sync Genera	ator	
6801KO 15-1500	•;•¦•	
		العا لعا

- •19-inch rack mountable
- · Supports SMPTE ST 2059 and PTP-Slave
- Black Burst, LTC and Word Clock output interface

Model			TS-2950								
				-01	-10	-11	-20	-21			
			GPS	Yes							
Time source GNSS QZSS GLONASS			Yes								
			Yes								
	ToD(BCD)			_	Yes	Yes	Yes	Yes			
Frequency source			_	_		MHz		Tri-level Sync			
CSAC (Cesium)			1us/1Hrs <sup>2</sup>	_	1us/1Hrs <sup>*2</sup>	_	1us/1Hrs <sup>*2</sup>				
Holdover accuracy 1		100/11110	400ns/5Hrs	140/11110	400ns/5Hrs	140/11110	400ns/5Hrs				
''	ordover doodracy	OCXC	O Type-A	_	1.5µs/24Hrs	_	1.5µs/24Hrs	_	1.5µs/24Hrs		
	Leap second		nent	Yes							
	Summer			Yes							
Black Burst output			Option								
	Pulse or	utput		1PPS, 10MHz (Option) SMPTE alignment poi							
				1PPS, 1UMHz (Optio					Hz (Option)		
	Relay conta	ct outp	ut	Option							
LAN interface			10BASE-T / 100BASE-TX / 1000BASE-T 4 ports								
Number of available interface port						1					
	Correction accura			UTC within < 100ns							
									-		
	Profile		Default profile								
			SMPTE ST 2059-2								
DTD	Proto	col			IF.	Pv4 UDP/ IPv6	6 UDP/Ethern	et			
PTP	Delay mechanism		Delay request-response								
			Peer delay								
	Sync. message tra	nsmiss	ion type	1 step/2 step <sup>'3</sup>							
	Syno. mosoago transmission type		Sync :16 packets/sec								
			Delay_request (receive) : 16,384 packets/sec								
	Processing cap	ability	(max.)	Delay_response (send): 8 packets/sec							
				Announce : 8 packets/sec							
	Number of available interface port		3'4								
	SNT		Yes								
NTP	Autokey auth	ation	Yes								
	MD5 authentification			Yes							
Processing capability (max.)			14,000 packets/sec								
	TIME, DAYT	IME		Yes							
HTTP, HTTPS			Yes								
Telnet, SSH			Yes								
SNMP			Yes								
syslog			Yes								
Mail notification			Yes								
IPv6			Yes								
Characteristics			TS-2950								
Rated voltage			AC 100V-240V±10% (50/60Hz)								
Rated current			0.50A								
Power consumption			45W								
Calorific value			140 KJ/h								
Operation temperature			0°C to 40°C								
Operation humidity			20% to 80% RH (no condensation)								
Installation style Dimensions			Rack mount (fittings included)								
Weigh			430(W) x 500(D) x 44(H) mm (projection not included)								
veign Certificates			Approx. 10kg								
Certificates			VCCI-A, RoHS, PSE								
Option			GNSS antenna								
			antenna holder power unit module								
			fan module								
			expansion module								
						Cesium	osci <b>ll</b> ator				

- \*1 Depending on the Oscillator (hardware) selected for the required holdover performance.
  \*2 CSAC is very surperior to OCXO in long term stability of frequency.0.3ppb/month (unlock to GPS)
  \*3 In case of IPv6 UDP the operation of the time synchronization can be carried out only in two-step, and the peer delay measurement can be carried out only
- in two-step too.

  \*4 It supports source address based routing.

\*All trademarks and registered trademarks are the property of their respective owners. \*Design and specifications are subject to change without notice.

# SEIKO

#### SEIKO SOLUTIONS INC.

1-8 Nakase, Mihama-ku, Chiba-shi, Chiba 261-8507, Japan E-mail:support@seiko-sol.co.jp https://www.seiko-sol.co.jp/en/