

## TA1200

### Optical Cesium Frequency Standard

#### ➤ Applications

- Telecommunication Primary Reference Clock
- Standard for Time Synchronisation, Electric Systems, Telecommunication Systems etc.

#### ➤ Features

- Small Size,Low-Power,High Stability
- Long Cesium tube life time-10 years
- Remote access/health monitoring via Ethernet & RS-232
- Wide Working Temperature Range

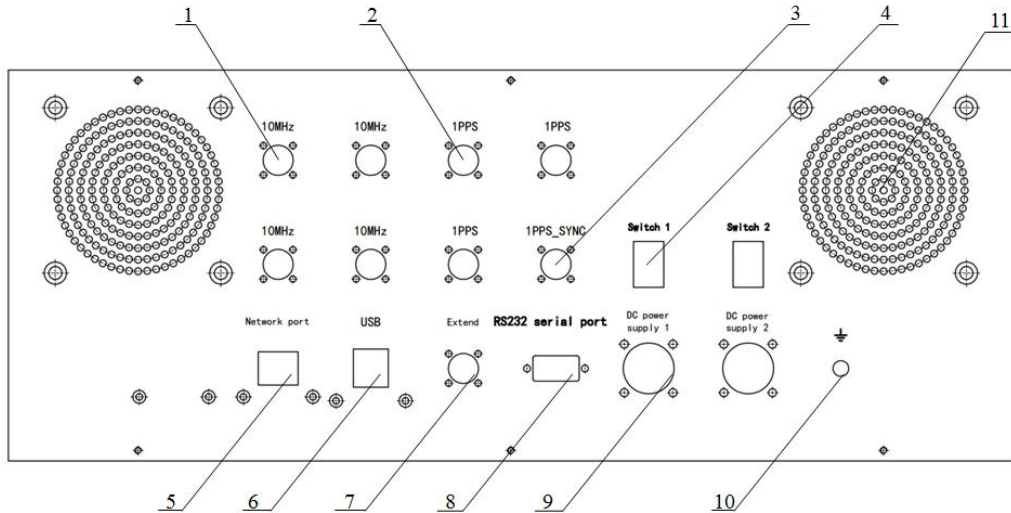


#### ➤ Electrical & Environmental Specification

Parameter	Condition
Enclosure(D×L×H)	19" rack 4 HU (553 <sup>±0.5</sup> mm×456 <sup>±0.5</sup> mm×177 <sup>±0.5</sup> mm)
Weight	≤40Kg(net weight)
Power Consumption (steady state)	≤100W
Power Supply	DC supply:voltage is -22~-75V,rated value is -48V,2ports
Input	External Synchronisation,1port
Output	Standard 10MHz frequency signal,4ports
	1PPS pulse signal,3pots

10MHz	Output level		7~13dBm
	Harmonics		≤-40dBc
	Spurious		≤-80dBc
	Frequency accuracy		≤1.0E-12
	Frequency stability	1s	≤1.2E-11
		10s	≤8.5E-12
		100s	≤2.7E-12
		1000s	≤8.5E-13
		10000s	≤2.7E-13
		100000s	≤8.5E-14
	Phase noise	1Hz	≤-100dBc
10Hz		≤-130dBc	
100Hz		≤-145dBc	
1000Hz		≤-150dBc	
10000Hz		≤-154dBc	
1PPS	Output level		≥2.4V TTL (50Ω 负载)
	Pulse width		20 μ s
	Rise time		≤5ns
	RMS Jitter		≤1ns RMS
	Synchronization accuracy		≤20ns
Working temperature range			0℃~+40℃
Lifetime			≥10 年
MTBF			≥120,000h
Interface Type			BNC/TNC
Remote communication			Ethernet & RS-232

➤ **Backplane/Connections**



#	Description	#	Description
1	10 MHz Outputs (×4)	7	1PPS Synchronization Input or 2.048MHz/E1 Output
2	1PPS Outputs (×3)	8	RS-232 Interface
3	1PPS Synchronization Input	9	DC Power Supply Input (×2)
4	Power Switch (×2)	10	Ground connection
5	LAN Interface	11	Fan vents
6	USB Interface		

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