

# CR4201

10G Clock Recovery Unit

Version 3.2





## Product Description

Semight Instruments CR4201 is a clock recovery unit used in conjunction with the optical sampling scope. The trigger clock generated from CR4201 usually is requires to measure eye diagram on sampling oscilloscope, sometimes even directly extracted from optical signal itself such as typical ONT test or circuit board card test.

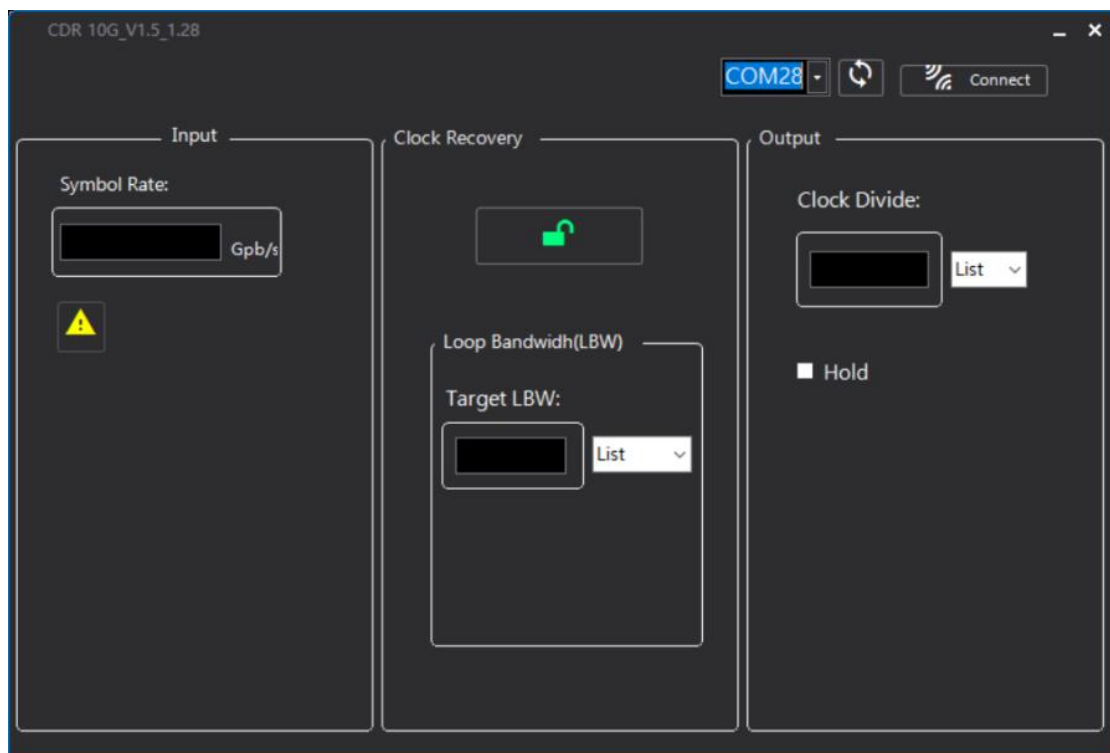
CR4201 supports flexible & adaptive data rate range of 1.25G ~ 10.3125Gbps clock recovery.

## Key Features

- Supported data rate: 1.25 ~ 10.3125Gbps;
- Adaptive clock recovery: Auto-Locking;
- High sensitivity: >-20dBm;
- Clock division output: 1/2, 1/4, 1/8, 1/16;

## Software function

Semight Instruments DCA4201 has very intuitive and simple interface GUI in which the system can be easily configured.





## Technical Specification

Technical Indicators	Data range	1.25G~10.3125G (Self-Adaptive)
	Input Port	Optical
	Optical interface	FC/UPC
	Input power range	>-20dBm
	Output clock division	1/2, 1/4, 1/8, 1/16
	Output clock amplitude	200~600mV
	Impedance	50Ω
	Output clock rise/fall time (20%~80%)	< 100ps
	PLL Bandwidth	500kHz/1MHz/1.5MHz/ 2.0MHz/2.5MHz/3.0MHz/3.5MHz
	Jitter peak	0.01dB@ OC-3/ OC-12 0.014dB@ OC-48/8GFC/OC-192
	Jitter tolerance	Meet the requirements of standards and specifications
	Output jitter	<4.5mUI@OC-192 <5mUI @8GFC <2.5mUI@OC-48, 12kHz to 20MHz <0.7mUI@OC-12, 12kHz to 5MHz <0.2mUI@OC-3, 12kHz to 1.3MHz
General Indicators	Usage	Indoor
	Working condition	Temperature: 0°C ~ +40°C, Humidity: 30% ~ 80% with no condensation
	Storage condition	Temperature: -10°C ~ 70°C, Humidity: 10% ~ 90% with no condensation
	Altitude	Operation: 0m to 2000m, Storage: 0m to 4600m
	Power	LINE: 100-240VAC, 50/60Hz, 250W FUSE: T3.15AL 250VAC
	Warm-up time	After 10 minutes warm-up, ambient temperature changes less than ± 3°C
	Calibration period	2years
	Dimensions	412*304*112mm (with foot pad/handle)
	Weight	Net weight 5.0kg

## Ordering Information

-SM	Single-mode
-MM	Multi-mode



## Contact us

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## About Semight Instruments

Semight Instruments is a leading provider of global high-end test instrument and equipment. The company provides products and service to the development, fabrication and service of high-speed communication, optical chip and semiconductor testing fields. Semight's flagship testing instrument includes high-speed bit error ratio tester, network analyzer, broadband sampling oscilloscope, high-precision wavelength meter, optical spectrum analyzer, and digital Source Measure Unit. In addition, the company delivers optoelectronic hybrid ATE, laser chip burn-in system, laser chip tester, silicon photonics wafer tester, power chip tester, wafer level burn-in system, semiconductor parametric test system to domestic and international customers.

Semight Instruments adheres to the customer-centric, employee-based, innovation-driven, and subtle and broad corporate culture, and continues to provide customer trusted, cost-effective and high-performance products and service.

Visit [www.semight.com](http://www.semight.com) for more information.

\*Product specifications and descriptions in this article can be changed without notice