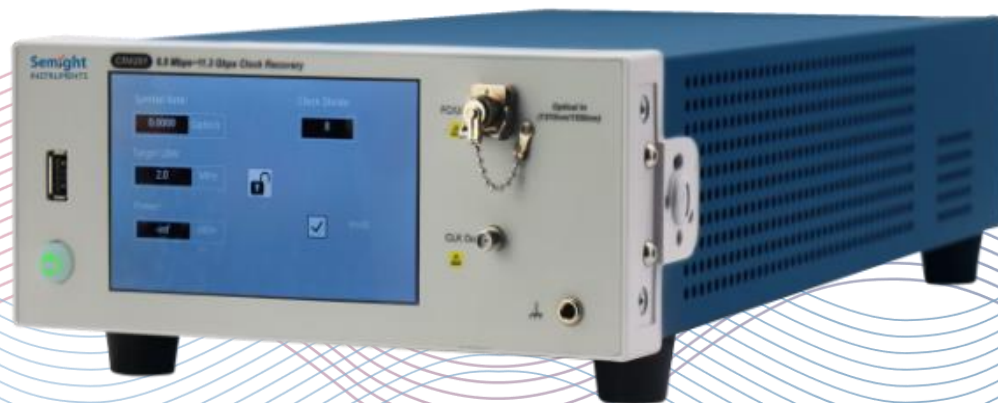


CR4201

10G Clock Recovery Unit

Version 3.7



Product Description

Semight Instruments CR4201 is a clock recovery unit used in conjunction with the optical sampling oscilloscopes. Sampling oscilloscopes need a clock to trigger it for eye-diagram testing. When a clock or trigger signal is not provided by the device under test, such as ONT(Optical Network Terminal) or other line-card, CR4201 is the best choice to derive a clock from the data being measured.

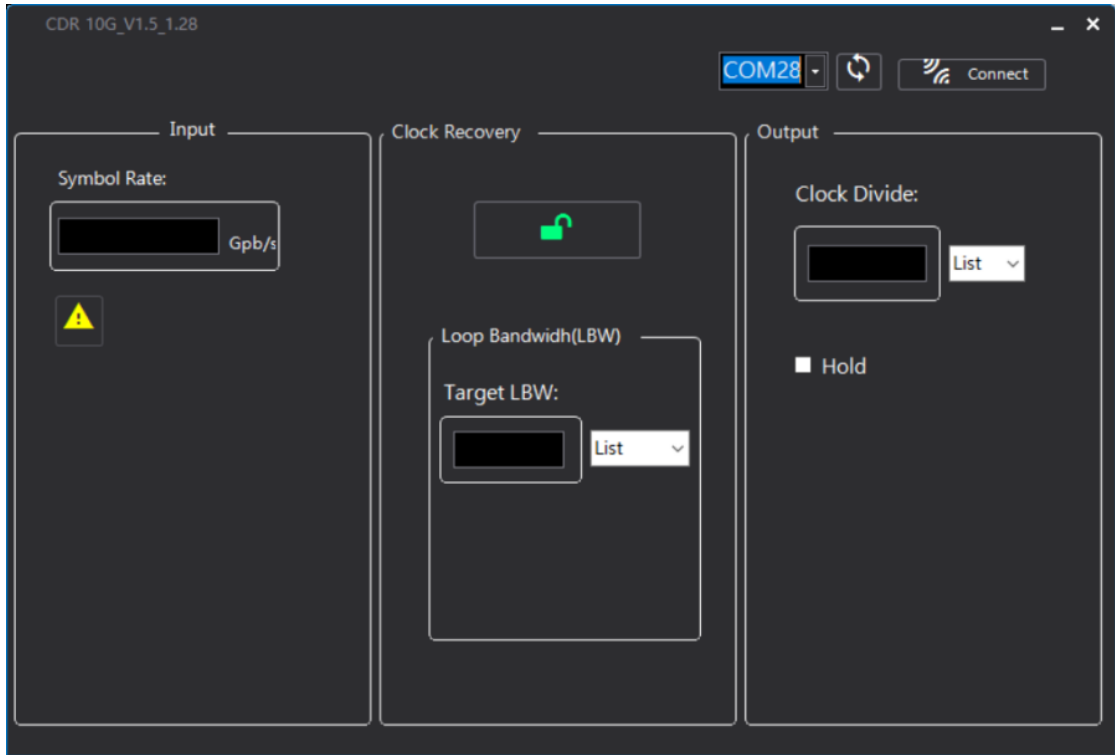
CR4201 supports flexible & adaptive data rate range of 1.25 ~ 10.3125 Gbps clock recovery.

Key Features

- Supported data rate: 1.25 ~ 10.3125 Gbps;
- Adaptive clock recovery: auto-locking;
- High sensitivity: >-20 dBm;
- Clock divide ratio: 1/2, 1/4, 1/8, 1/16;

Software function

Semight Instruments CR4201 has very intuitive and simple interface GUI in which the system can be easily configured.



Technical Specification

Technical Specification	Data range	1.25 ~ 10.3125 Gbps (self-adaptive)
	Channel	Single Optical Channel
	Optical interface	FC/UPC
	Input power range	>-20 dBm
	Output clock division	1/2, 1/4, 1/8, 1/16
	Output clock amplitude	200 ~ 600 mV
	Impedance	50 Ω
	Output clock rise/fall time (20%~80%)	<100 ps
	PLL bandwidth	500 kHz/1 MHz/1.5 MHz/2.0 MHz/2.5 MHz /3.0 MHz/3.5 MHz
	Jitter peak to peak	0.01 dB @ OC-3/OC-12 0.014 dB @ OC-48/8GFC/OC-192
	Jitter tolerance	Meet the requirements of standards and specifications
	Output jitter	<4.5mUI @ OC-192 <5mUI @ 8 GFC <2.5mUI @ OC-48, 12 kHz to 20 MHz <0.7mUI @ OC-12, 12 kHz to 5 MHz <0.2mUI @ OC-3, 12 kHz to 1.3 MHz

General Specification	Usage	Indoor
	Working condition	Temperature: 0 ~ +40 °C, Humidity: 30% ~ 80% with no condensation
	Storage condition	Temperature: -10 ~ 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	2 years
	Dimensions (D x W x H) mm	450*212*105 (with foot pad/handle)
	Weight	Net weight 4.3 kg

Ordering Information

-SM	Single-mode
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*This information is subject to change without notice.