

CR600 60Gbaud Optical/Electrical Clock Data Recovery Unit



The Dimension CR600 Optoelectronic Clock Recovery Unit supports both NRZ and PAM4 modulation formats, with the capability to recover optoelectronic clock up to 60 GBaud. The system integrates single and multi-mode OE conversion circuits, and clock recovery circuits, making it suitable for both electrical and optical applications. The unit meets the stringent requirements for high sensitivity and low inherent jitter, ensuring excellent measurement accuracy. With a user-friendly interface, it is easy to configure and use. Whether you're testing computer systems, optical communication systems, or verifying standards compliance, the Dimension CR600 Clock Recovery Unit offers an outstanding, highly reliable, and cost-effective clock recovery solution.

Key Features

- · Supports NRZ and PAM4 signals, with rates up to 120 Gbps
- · Compact, portable, and easy to use
- Integrated OE and clock recovery design
- Supports single/multi-mode optical signals with sensitivity better than -10dBm
- Ultra-low random jitter < 250 fs RM

Applications

- Optical Transceiver Module
- Subsystem Clock Recovery
- Eye Diagram Test















User Interface

The CR600 provides a simple user interface, allowing easy parameter setting and selection, while intuitively displaying the operating status and relevant parameters of the clock recovery unit.



Communication Protocol

The CR600 comes with a comprehensive communication protocol, which allows users to set various parameters and read the operating status of the unit via the USB port. Program examples are provided, enabling users to easily integrate the CR600 into their testing systems.

Code Example: 15.*IDN? Return system information. Send: *IDN? Return: CR600 CDR, HW Ver:1.0, FW Ver:1.0 string strValue = ""; if (!SendCommand("*IDN?")) return "NoDevice"; if (!ReceiveData(ref strValue)) return "NoDevice"; if (strValue == "") return "NoDevice"; return strValue.TrimEnd();	<pre>public string GetInstrumentInfor() { try { Mux.WaitOne(); string strValue = ""; if (!SendCommand("*IDN?")) return "NoDevice"; if (!ReceiveData(ref strValue)) return "NoDevice"; if (strValue == "") return "NoDevice"; return strValue.TrimEnd(); finally { Mux.ReleaseMutex(); } } } }</pre>



Specifications

Electrical Parameters	
24~30Gbaud, 48~60Gbaud	
NRZ/PAM4	
2.92mm female, 50 Ω	
400mVpp @56GBd	
2.92mm female, 50 Ω	
600mVpp @56GBd	
2.92mm female, 50 Ω	
700mVpp @26.56GHz	
100mVpp @56GBd	
1/2, 1/4, 1/8, 1/16, 1/32, 1/64	
<230fs @13.28GHz	
4 MHZ	
±100ppm	
Yes	
Yes	
Yes	
Optical Parameters	
24~30Gbaud, 48~60Gbaud	
-12dBm@53.125 Gbaud, PAM4 SM	
-10dBm@53.125 Gbaud, PAM4 MM	
Single-Mode, Multi-Mode	
820~1650nm	
16 dB	
SM: FC/PC 9/125um	
MM: FC/PC 50/125um	
Others	
10°C to 40°C(50°F to 104°F)	
5V	
95% RH, non-condensing	
USB, LAN	
6W	

Order Info

Model	Description
CR600	60Gbaud Optical Electrical Clock Data Recovery Unit

Related Products



Stabilized Light

Source



Programmable Optical Switch



Optical Power Meter



Easycleaner-3 Pen-type Cleaner

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