

cronologic

Ndigo Crate
Ndigo Crate-3
Ndigo Crate-5

Product Brief



www.cronologic.de

Ndigo Crates



Introduction

In case your PC mainboard features not enough PCIe slots, our NdigoCrate enclosures extend the number of available connectors via cable. With the Ndigo Crate it is possible to use up to 8 PCIe boards with a PC. The connection of the external chassis to the PC happens over PCIe2 x16 for a full duplex bandwidth of 2x 8GByte/s.

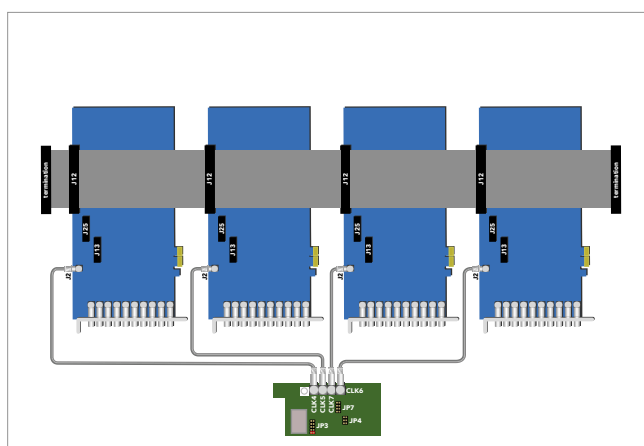
There are three versions available: The Ndigo Crate features PCIe interfaces only, whereby the Ndigo Crate-3 version also features two 3V PCI interfaces and the Ndigo Crate-5 version two 5V PCI interfaces.

The enclosures are specifically designed to operate multiple synchronized cronologic digitizer boards to create a high speed data acquisition system. They can also be used to house other DAQ cards, GPUs for high performance computing, storage adapters or networking equipment.

The extension is fully transparent. The operating system can't distinguish between boards in the PCIe expansion box and boards inside the PC itself. No drivers are required.

The slot covers are on the front side of the enclosure to easily see status information and plug in cables during operation. The crate is delivered as a set with cable and PC link board.

Application example (xHPTDC8 & ClockBox): Synchronize multiple data acquisition boards for measuring more channels.



In measurement setups that require more ADC or TDC inputs, up to eight boards can be synchronized within a system.

Such setups will be managed automatically by the API of your cronologic boards.

Tip: For synchronizing up to four boards, cronologic offers the optional ClockBox product that conveniently makes four clock signals available.

There are no additional drivers required.

Technical Data

	Crate-5	Crate-3	Crate
Connection to host	PCIe3 x16	PCIe3 x16	PCIe2 x16
Bandwidth to host	16 GByte/s	16 GByte/s	8 GByte/s
Performance relative to 10 Gbps Thunderbolt link	12,8x	12,8x	6,4x
PCIe2 16x slots with 8 lanes	2	2	0
PCIe2 16x slots with 4 lanes	3	3	8
PCI slots 5 V, 32 bit, 33 MHz	2	0	0
PCI slots 3 V, 32 bit, 66 MHz	0	2	0
Cable and link boards	included	included	included



cronologic
GmbH & Co. KG
Jahnstraße 49
60318 Frankfurt
fon: +49 (0) 69 173 20 256-0
UStID: DE235184378

CR-PRODUCTBRIEF-Ndigo-Crates-07-2021-02-eng