



Version 0.3 - August 2024 - Advance Information

Abstract

The syn1588® 10G NIC is available in several configurations. They differ in the oscillator and cable connector options. This application note describes the available ordering options in detail.

Introduction

The syn1588® 10G NIC is delivered with a large (standard height) PCI bracket; a short (reduced height) PCI bracket is included as well. The following pictures show all available options briefly as well as the related ordering codes.

Oscillator Options

To enable our customers to trade off costs versus accuracy Oregano Systems offers it's syn1588® 10G NIC cards with two different oscillator options.

- standard TCXO (1.5 ppm, default option)
- high-stability OCXO (better than 0.5 ppm)

The default configuration of the syn1588® 10G NIC card includes the cost-effective option "standard TCXO".

Cable Options

Oregano Systems offers its syn1588[®] 10G NIC cards with different cable options.

Plug (surcharge option)

The Plug option contains a set of two coaxial cables (length approx. 300 mm) that can be connected to the two MMCX connectors in the top side of the syn1588[®] 10G NIC (marked as X5 and X6). On their respective opposite ends the cables are equipped with SMA plugs enabling directly connecting a SMA connector to your system (see figure 1).

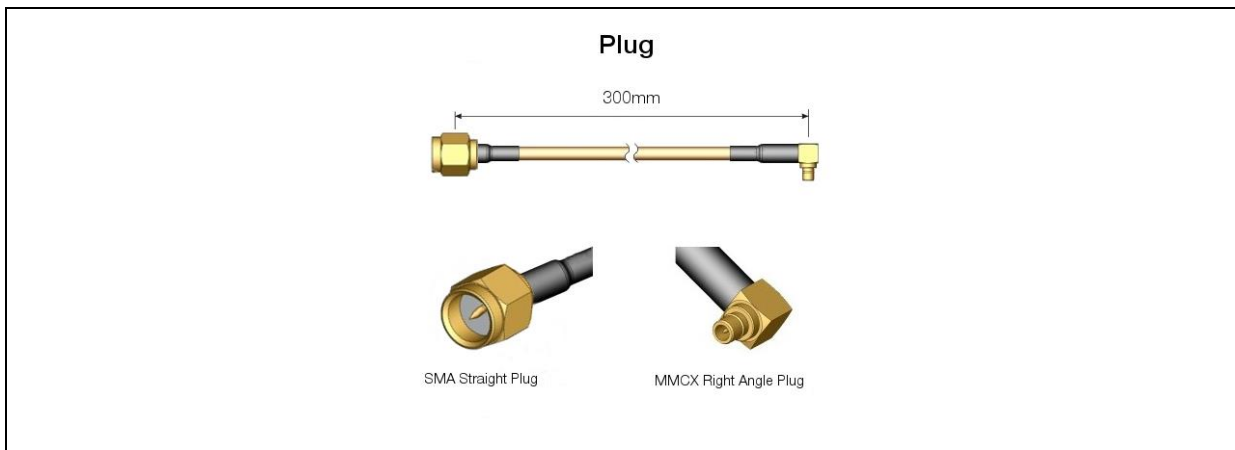


Figure 1. SMA cable for Plug option

The PLUG option is made up of two such cables.

ExtClk (surcharge option)

This option is used to supply an external clock input to the PTP hardware clock of the syn1588[®] 10G NIC. An MMCX connector is mounted on one side of the cable (length approx. 100 mm) while an SMA bulkhead jack is attached to the other end (see figure 2).

Caution: Please note that the ExtClk option requires a large (standard height) PCI bracket for the third SMA connector (external clock input).



Figure 2. SMA cable for ExtClk option

syn1588[®] 10G NIC Ordering Code

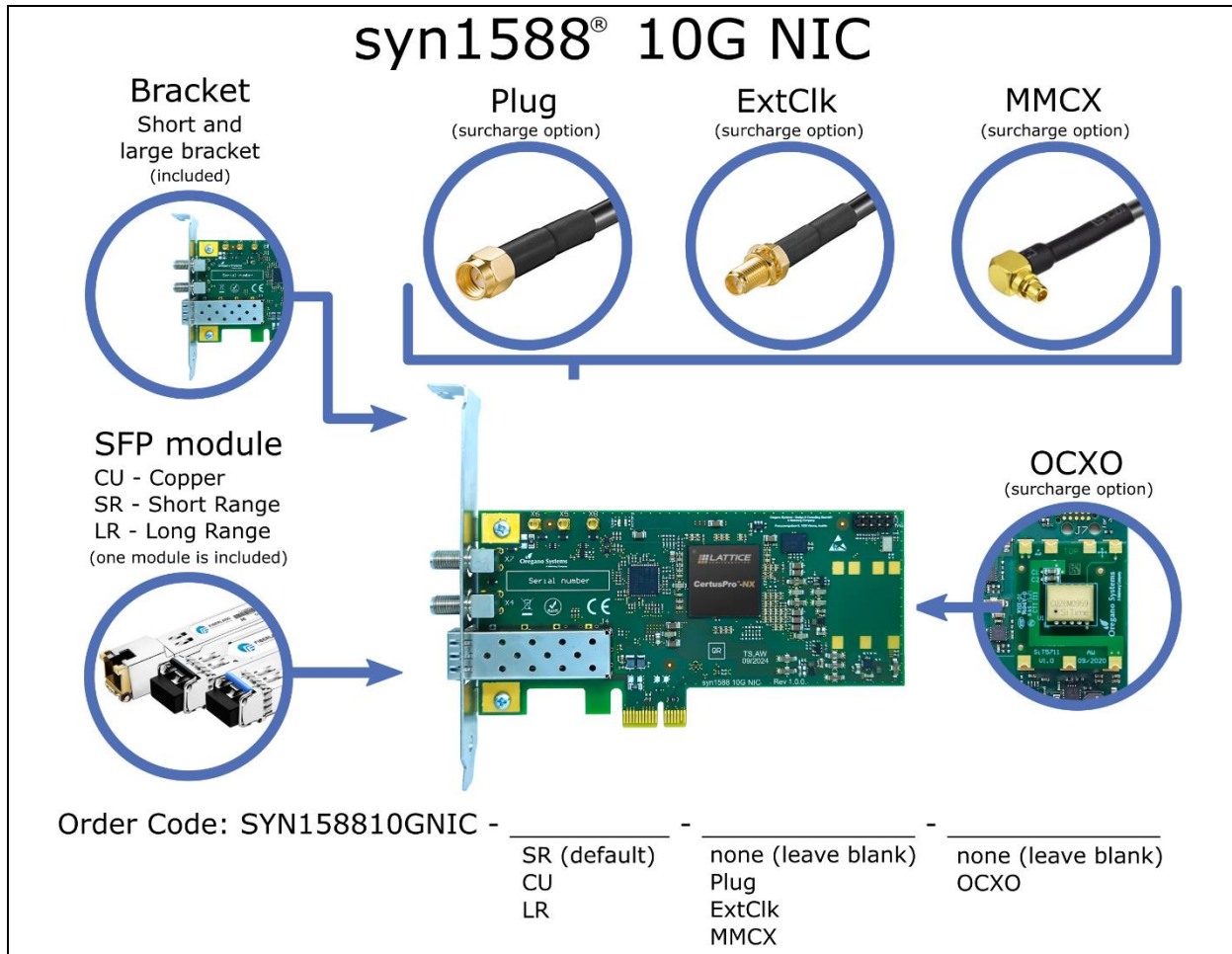


Figure 3. syn1588[®] 10G NIC Ordering Code



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