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Abstract

The syn1588® Dual NIC is available in several different configurations. They differ in the type of the oscillator and cable connector options. This application note describes the available options in detail.

Introduction

The syn1588® Dual 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

In order to enable our customers to trade off costs versus accuracy Oregano Systems offers its syn1588® Dual 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® Dual NIC cards include the cost effective option “standard TCXO”.

SFP Options

The syn1588® Dual NIC comes by default with two SR (short range) fiber SFP transceiver modules. Optionally the card can be ordered with two LR (long range) fiber or two 100/1000Mbit copper SFP transceiver modules with the same pricing.

Cable Options

Oregano Systems offers its syn1588[®] Dual NIC cards with three different cable options.

- **Plug (surcharge option)**

Oregano Systems supplies a cable (length approx. 300 mm) that can be connected on one side to X5, X6 and X7 on the syn1588[®] Dual NIC (MMCX connector). This cable offers a SMA plug on the other side enabling directly connecting a SMA connector in your system.

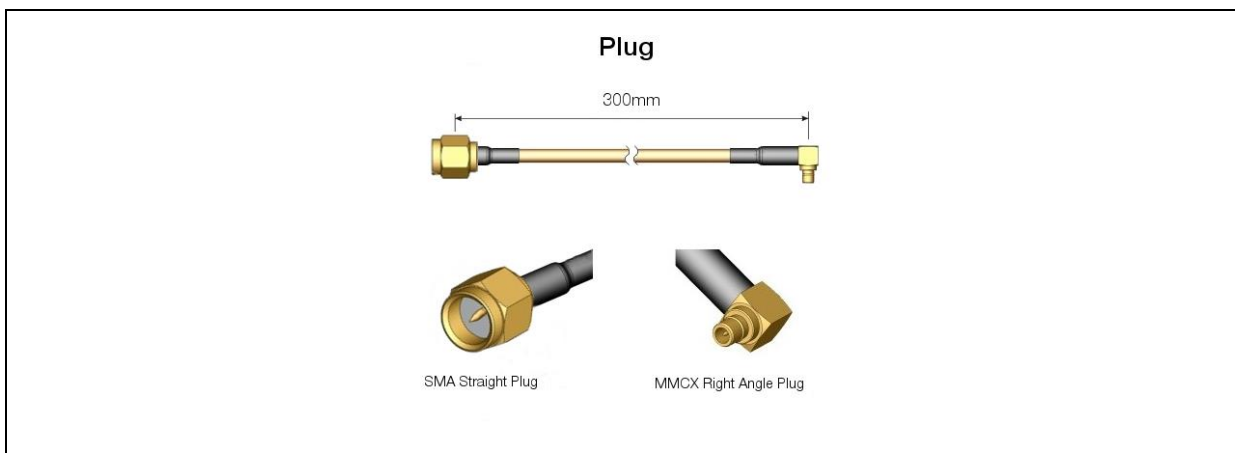


Figure 1. SMA cable for Plug option

The PLUG option is made up of two such cables.

- **ExtClk (surcharge option)**

Another option is the external clock input (option ExtClk) to drive the syn1588[®] hardware clock directly from this external signal.

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

- **MMCX (surcharge option)**

Oregano Systems supplies a cable (length approx. 300 mm) that can be connected on one side to X5, X6 and X7 on the syn1588® Dual NIC (MMCX connector). This cable offers a right angle MMCX plug on the other side enabling directly connecting to X5, X6 and X7 on another syn1588® Dual NIC (MMCX connector) in your system.

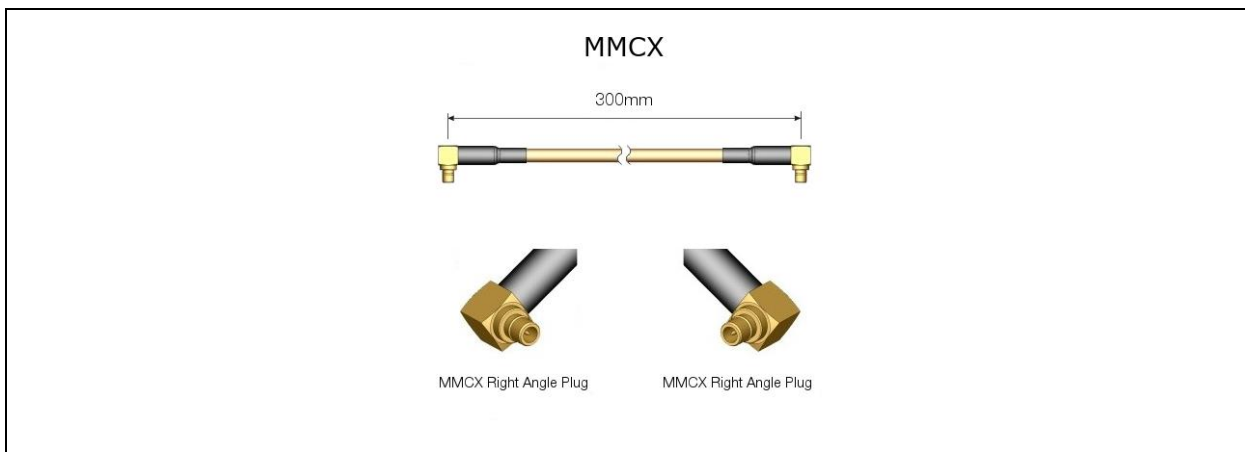


Figure 3. MMCX cable for MMCX option

The MMCX option is made up of two such cables.

syn1588® Dual NIC

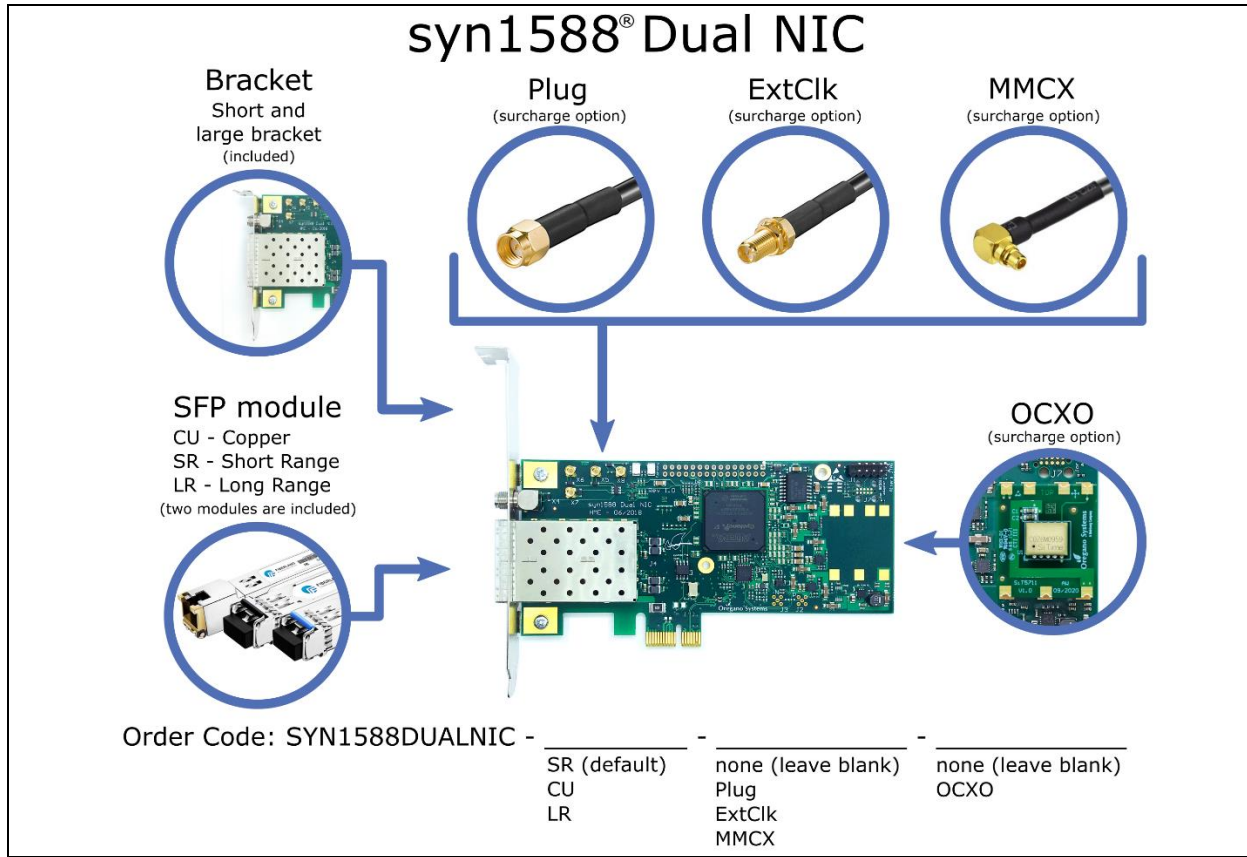


Figure 4. syn1588® Dual NIC



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