

# **What optical module should the x520 use**





## Overview

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The Intel X520 card uses Enhanced Small Form-factor Pluggable (SFP+) modules to connect to the 10 Gbps fiber network. When the correct one is inserted, reboot and the interfaces should be recognized. I'm hoping I can use a couple of the generic ones I have but wanted to check ahead of installing it. The x520 will accept any DAC (doesn't have to be coded for Intel), but requires Intel-coded SFP+ transceivers on Windows. Has anybody else encountered a Problem like this before or am i missing something?

Kind Regards Nik.



## What optical module should the x520 use

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### **Intel® Ethernet SFP+ SR Optics and LR Optics**

To ensure maximum flexibility, Intel supports the ability to mix any combination of the SFP+ optical modules, direct attach copper cables, or 1000BASE-T SFP modules on the Intel Ethernet X520

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### **XCP-NG and Intel X520-DA2 10Gbit card with non-Intel SFP**

Using untested modules is not supported and may cause unstable operation or damage to the module or the adapter.

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## Solved: X520

For retail Intel® Ethernet Converged Network Adapter X520 Series, we do have a specific list of Compatible SFP+ Modules, SFP Modules, and Cables link below. Mentioned on the site, Other

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## Intel X520-DA1 driver support in Windows 11 , Ars OpenForum

I need new 10 GbE SFP+ NICs because the stack of ConnectX-2s I have are no longer supported in Windows 11. A real shame, I'm a big fan of these Mellanox cards. I found a cheap

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## Determining which SFP module to use for 10Gb/s port on

The Intel X520 card will only work with two Intel-specified SFP+ modules (listed below). No other modules will work with the X520 card. These are the model numbers for the SFPs. The Short Range



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## **Intel X520-DA2 Optics Compatibility : r/homelab**

Intel X520-DA2 Optics Compatibility I was given this NIC, specifically the Startech version, and couldn't find a good list of compatible optics. I'm hoping I can use a couple of the generic ones I have but

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## **Dual**

Intel's family of adapters, the Intel® Ethernet Converged Network Adapter X520 with SFP+ connectivity, are the most flexible and scalable Ethernet adapters for today's demanding data center

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## **Intel X520-2 and SFP+ transceiver issue**

Two computers without a fiber-optic capable router in-between should be on the same subnet. I.e pc1 on 10.10.10.10 255.255.255.0 And pc2 on 10.10.10.20 255.255.255.0  
You may also have to make a

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## **What Are the Differences Between Compatible SFP+ Modules Used**

Refer to Intel® Ethernet SFP+ SR Optics and LR Optics Product Brief for the description and characteristics of each. As for the SRX (Extended Temp) version, it is a single-rate that only

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## **Which 10G SFP+ Optics Are Compatible with Intel X520 Adapter?**

Intel Ethernet SFP+ SR optics and Intel Ethernet SFP+ LR optics are the only 10 Gbps



optical modules supported. Other brands of SFP+ modules are not allowed and can't be used with

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## **is there a difference between these 2 Intel Adapters**

This was to reduce the ability for people to identify them as rebadged Intel cards. Even Intel has all the x520 series cards listed as using the 82599 Ethernet controller chipset. okay another

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## **10 gigabit fiber network connections for Security Analytics**

The Intel X520 card uses Enhanced Small Form-factor Pluggable (SFP+) modules to connect to the 10 Gbps fiber network. Symantec supplies two Short Range (SR) SFP+ modules with

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## **Re: SFP+ Compatibility with Intel E10G42BFSR X520-SR2.**

Intel does not recommend to use any third party modules as those modules may or may not work and will be based on your own validation. Mentioned also on the link given "Other brands of

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## **Intel® Ethernet X520 SFP+ Direct Attach Server Adapter**

Designed as a low-cost, low-power adapter, the Intel Ethernet X520 SFP+ DA Server Adapter provides direct attach copper twinaxial cable connections between servers and a top-of-rack switch. Two

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## **X520-SR2. Also possible to connect LR optics?**



Otherwise I guess I have to go along with one X520-LR1 and one X520-SR1 which is more expensive. Also, I am wondering if the X520 cards support 1Gbps aswell since I wont be able to

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## **Any reason to not get these for budget 10gig? :**

No, Mellanox ConnectX3 should be PCI-E 3.0, for dual 10G you only need x4 slot, while Intel X520 needs PCI-E 2.0 x8.

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## **Intel X520-SR2 Optics : r/homelab**

The x520 will accept any DAC (doesn't have to be coded for Intel), but requires Intel-coded SFP+ transceivers on Windows. On Linux, you can override this to accept any transceiver. I have a Dell

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## **10G network cards, is there a 'go to'? : r/homelab**

Just curious before I pulled the trigger on 2 of these cards if there is a go-to 10G SFP card. I run unraid and ririOS (for now). Back in the PCI days, it used to be a 3com

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## **Intel X520-DA2 Optics Compatibility : r/homelab**

I was given this NIC, specifically the Startech version, and couldn't find a good list of compatible optics. I'm hoping I can use a couple of the generic ones I have but wanted to check ahead of installing it.

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## **Intel X520-DA2 Install : r/vmware**

I don't have the exact same setup, but I am running X520-DA2 in my ESXi hosts



connected to Unifi XG-16's via non-intel DAC cables without issue. I have used non-intel SFP+ to Copper/RJ45 modules in

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## **Intel® Ethernet Network Daughter Card X520-DA2 and I350-T2**

Simplify the Transition to 10GbE The new Intel® Ethernet Network Daughter Card X520/I350 offers the flexibility of direct-attach twinaxial cables or short/long range fiber optics in a single adapter. The

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## **Intel X520-SR2 Optics : r/homelab**

The x520 will accept any DAC (doesn't have to be coded for Intel), but requires Intel-coded SFP+ transceivers on Windows. On Linux, you can override this to accept any transceiver.

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## **Linux\* Base Driver for the Intel (R) Ethernet 10 Gigabit PCI Express**

82598-BASED ADAPTERS NOTES: - Intel (r) Ethernet Network Adapters that support removable optical modules only support their original module type (for example, the Intel (R) 10 Gigabit SR Dual Port

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## **X520-SR2. Also possible to connect LR optics?**

I am wondering if it is possible to connect a LR optic to one port of the x520-SR2 card or if it only supports SR optics. The chip should be the same for all X520 models or am I missing

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## **Intel X520-DA transceiver compatibility : r/homelab**



i have a spare intel x520-da2 nic that i want to use in a pfsense box. for now it will just be plugged into a switch that isn't 10gb but has rj45 and sfp ports. can i use 10gb sfp+ transceivers in the x520 to

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## Intel X520-DA2 Datasheet

Intel's family of Intel® Ethernet Server Adapters X520 with SFP+ connectivity are the most flexible and scalable Ethernet adapters for today's demanding data center environments. Data center networks

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## SFP+ Compatibility with Intel E10G42BFSR X520-SR2.

Intel does not recommend to use any third party modules as those modules may or may not work and will be based on your own validation. Mentioned also on the link given "Other brands of

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## **SFP+ Modules and Cables Compatible with Intel®**

SFP+ optical module, SFP module, and direct attach cable requirements for the Intel® Ethernet Converged Network Adapter X520 Series.

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