



# User Manual for Compatibility Matrix Tool

Revised: September 2, 2018

**Link to compatibility matrix tool:** [Click here.](#)

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## Introduction

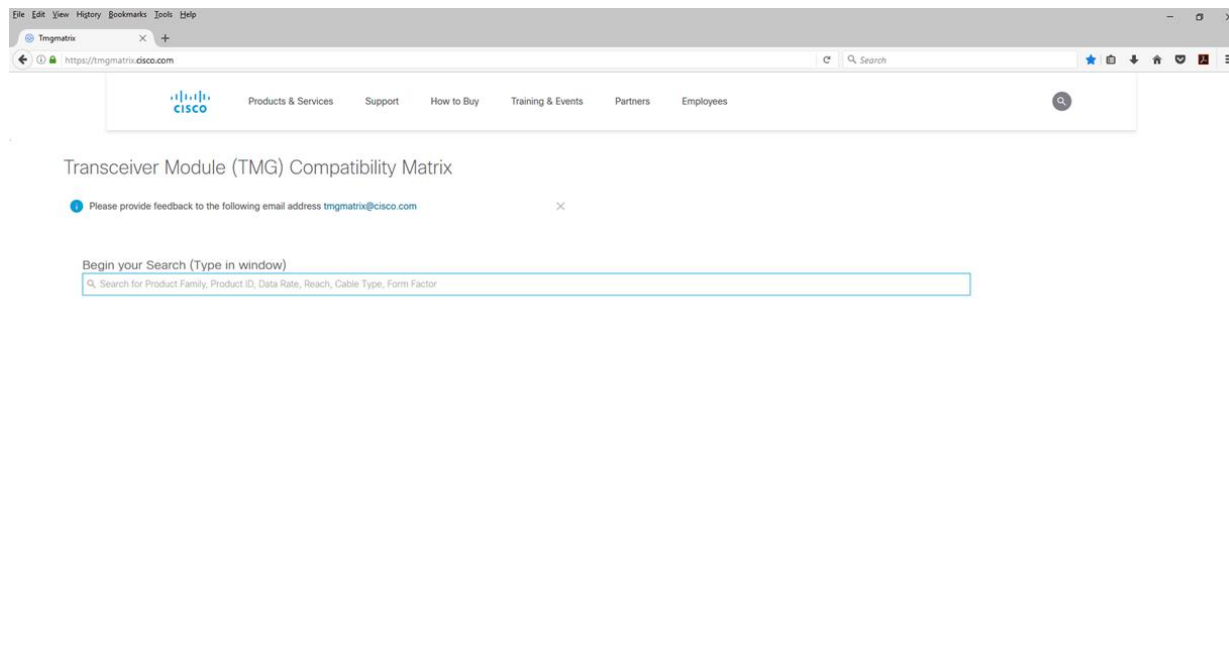
The current compatibility matrix allows users, typically Cisco customers and sales, to determine what transceivers are supported in Cisco hardware devices such as switches/routers and line cards/modules. The information is displayed in a table format that is rigid and hard to find.

The new compatibility matrix tool will allow the user to have an interactive experience by permitting specific search or query options, and selecting the type of outputs desired. The application features follow conventions frequently used today with expected behaviors. Thus, the features are user intuitive and do not require extra training.

## TMG Compatibility Matrix Tool Landing Page

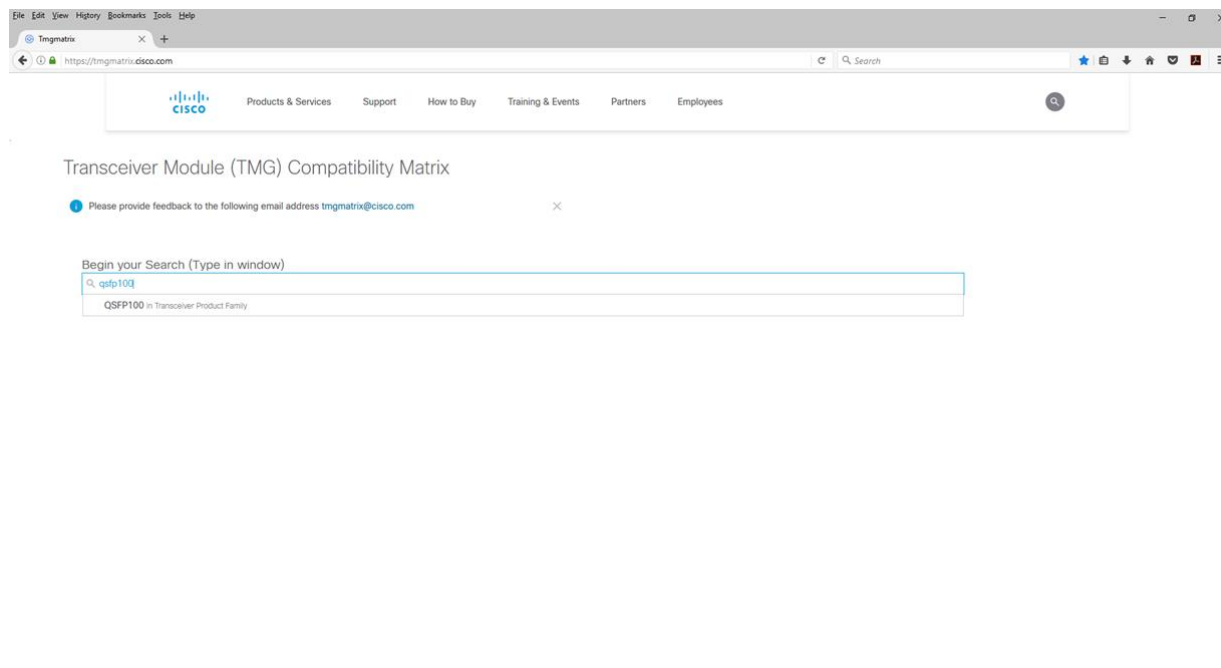
- Type: <https://tmgmatrix.cisco.com/home> to arrive at the TMG Compatibility Matrix Tool landing page to begin using the application
- Enter: any Network Device Product Family, Network Device Product ID, Transceiver Product Family, Transceiver Product ID, Data Rate, Reach, Cable Type, Form Factor at the search window

### Search Window Example



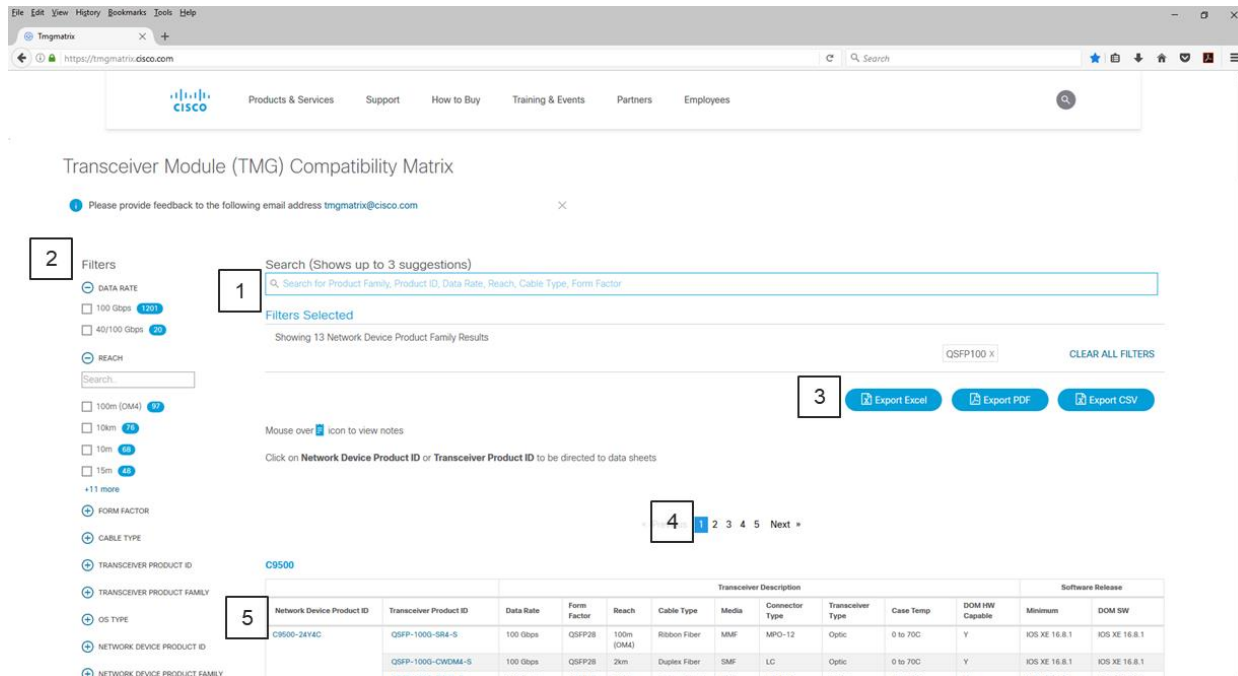
### Search Window Example

- Enter: QSFP100
- The application will suggest a category to choose from, in this case, Transceiver Product Family
- Click: on the highlighted category
- OR, hit the Enter key



## Full TMG Compatibility Matrix Tool Layout

- There are 5 main areas
  1. Main Search and Filters Selection windows
  2. Category Filters
  3. Export options
  4. Pagination (Page Number or Next Page)
  5. Results table



## Access Notes using Mouse-over / Hover

- More information is shown when you mouse over or hover over the Notes icon next to the Transceiver Product ID items

Network Device Product ID	Transceiver Product ID	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM HW Capable	Minimum	DOM SW
F9R-D9M-2X100G	QSF-1000-SR4-S	100 Gbps	QSFP28	100m (OM4)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	FXOS 1.1.4	
	QSF-1000-LRM-S	100 Gbps	QSFP28	10m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	FXOS 1.1.4	
	QSF-1000-ADC1M	100 Gbps	QSFP28	1m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC2M	100 Gbps	QSFP28	2m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC3M	100 Gbps	QSFP28	3m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC5M	100 Gbps	QSFP28	5m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC7M	100 Gbps	QSFP28	7m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC10M	100 Gbps	QSFP28	10m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC15M	100 Gbps	QSFP28	15m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSF-1000-ADC20M	100 Gbps	QSFP28	20m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
QSF-1000-ADC25M	100 Gbps	QSFP28	25m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--	
QSF-1000-ADC30M	100 Gbps	QSFP28	30m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--	

N9300										Software Release		
Network Device Product ID	Transceiver Product ID	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM HW Capable	Minimum	DOM SW
N9K-C92160YC-X	QSF-1000-SR4-S	100 Gbps	QSFP28	100m (OM4)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	NK-OS 7.0(3)3.1
	QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	NK-OS 7.0(3)3.1
	QSF-1000-PSM4-S	100 Gbps	QSFP28	500m	Ribbon Fiber	SMF	MPO-12	Optic	0 to 70C	Y	NK-OS 7.0(3)3.3	NK-OS 7.0(3)3.3
	QSF-1000-LRM-S	100 Gbps	QSFP28	10m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--
	QSF-1000-ADC1M	100 Gbps	QSFP28	1m	N/A (Incl ADC and DAC)	ADC	N/A	Cable	0 to 70C	N	NK-OS 7.0(3)3.1	--
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	10 to 60C	Y	NK-OS 7.0(3)3.1	--	
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--	
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--	
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--	
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--	
QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--	

## Expandable Filter Categories

- You can expand the Filter categories by clicking on the + icon

Transceiver Module (TMG) Compatibility Matrix

Please provide feedback to the following email address [tmgmatrix@cisco.com](mailto:tmgmatrix@cisco.com)

Filters:

- DATA RATE
  - 100 Gbps (1301)
  - 40/100 Gbps (20)
- REACH
  - 100m (OM4) (97)
  - 10km (76)
  - 10m (68)
  - 15m (45)
  - +11 more
- FORM FACTOR
- CABLE TYPE
- TRANSCEIVER PRODUCT ID
- TRANSCEIVER PRODUCT FAMILY** (Expanded)
- OS TYPE
- NETWORK DEVICE PRODUCT ID
- NETWORK DEVICE PRODUCT FAMILY

Search (Shows up to 3 suggestions)

Filters Selected: Showing 13 Network Device Product Family Results

QSF100 X CLEAR ALL FILTERS

Export Excel Export PDF Export CSV

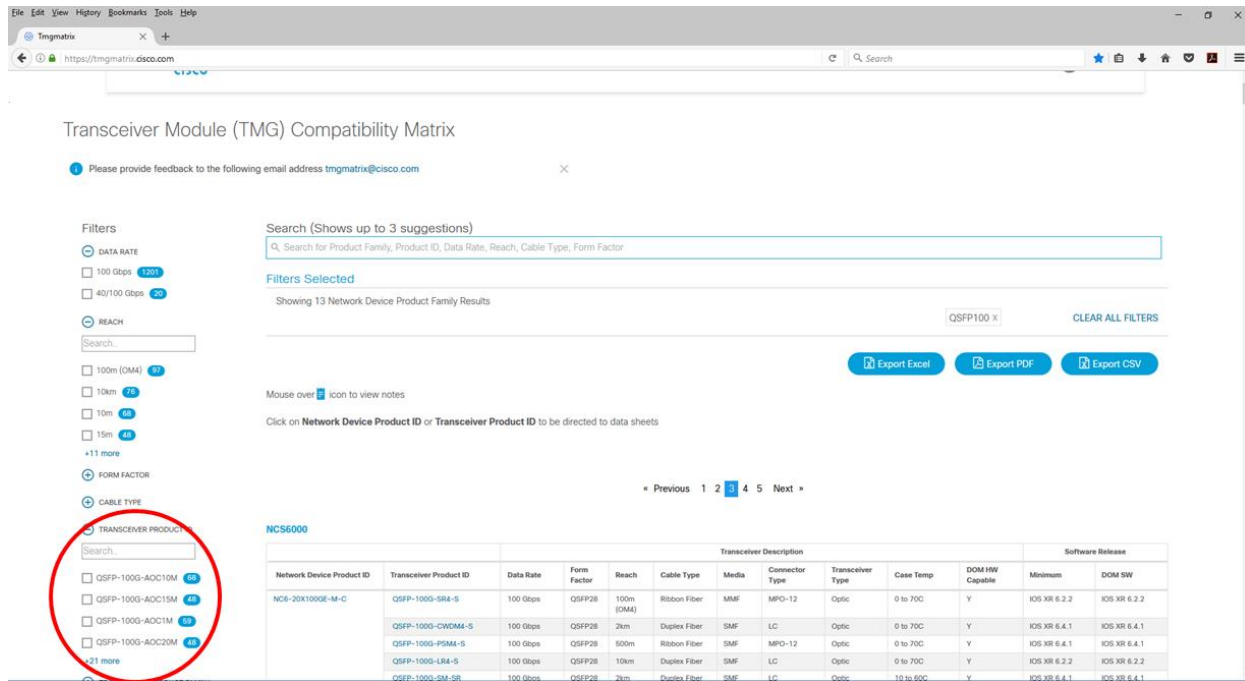
Mouse over icon to view notes

Click on **Network Device Product ID** or **Transceiver Product ID** to be directed to data sheets

Previous 1 2 3 4 5 Next

NCS6000												
Network Device Product ID	Transceiver Product ID	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM HW Capable	Minimum	DOM SW
NCS-20X100GE-M-C	QSF-1000-SR4-S	100 Gbps	QSFP28	100m (OM4)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	IOS XR 6.2.2	IOS XR 6.2.2
	QSF-1000-CQDM-S	100 Gbps	QSFP28	2m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	IOS XR 6.4.1	IOS XR 6.4.1

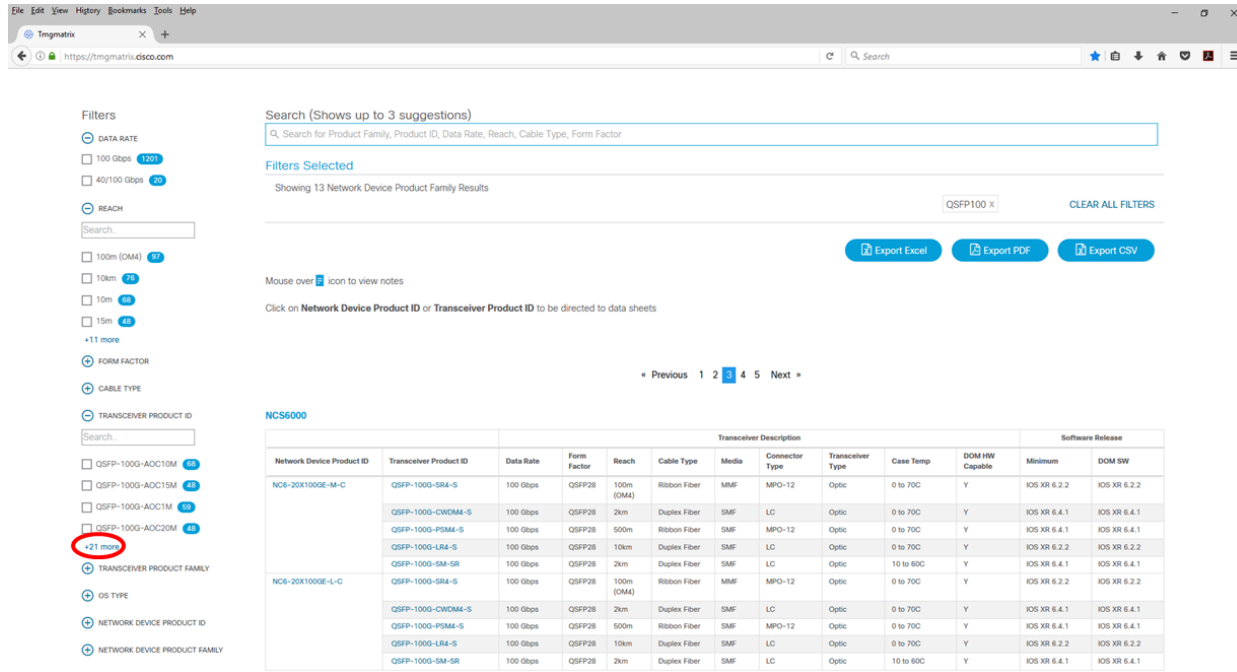
Display More Filter Categories



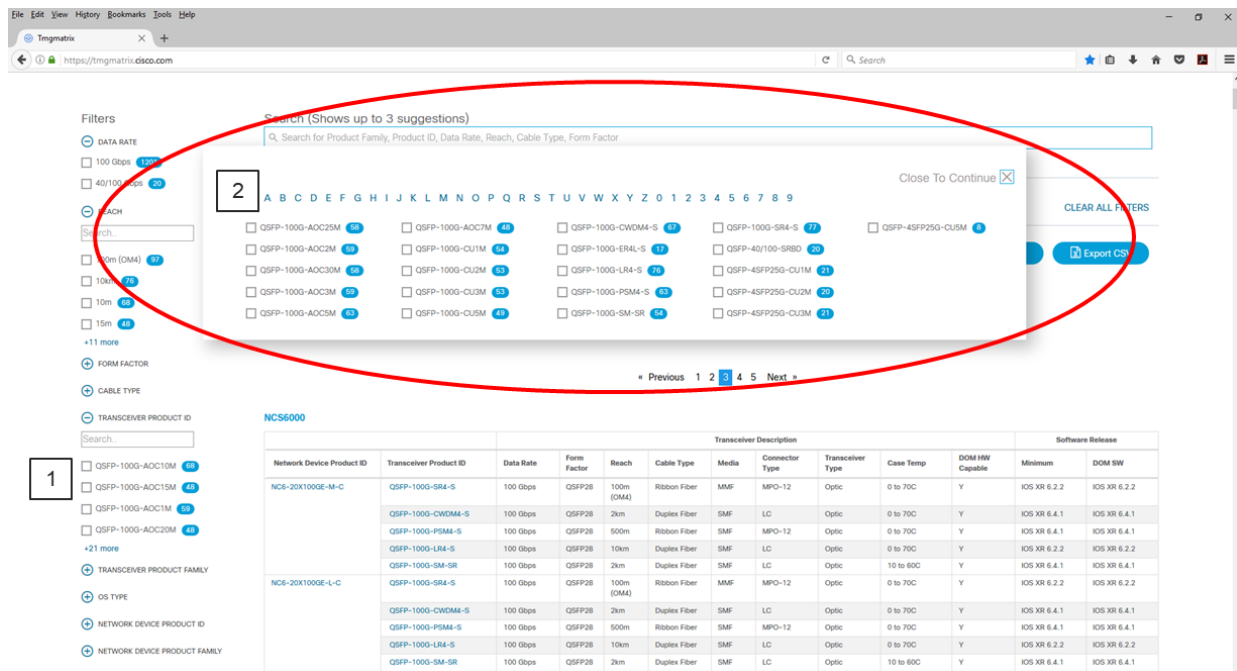
Display More Filter Categories

- Expanded Filter categories will display up to four items
- Click: +\_\_ more will display the rest of the Filter categories

Display More Filter Categories



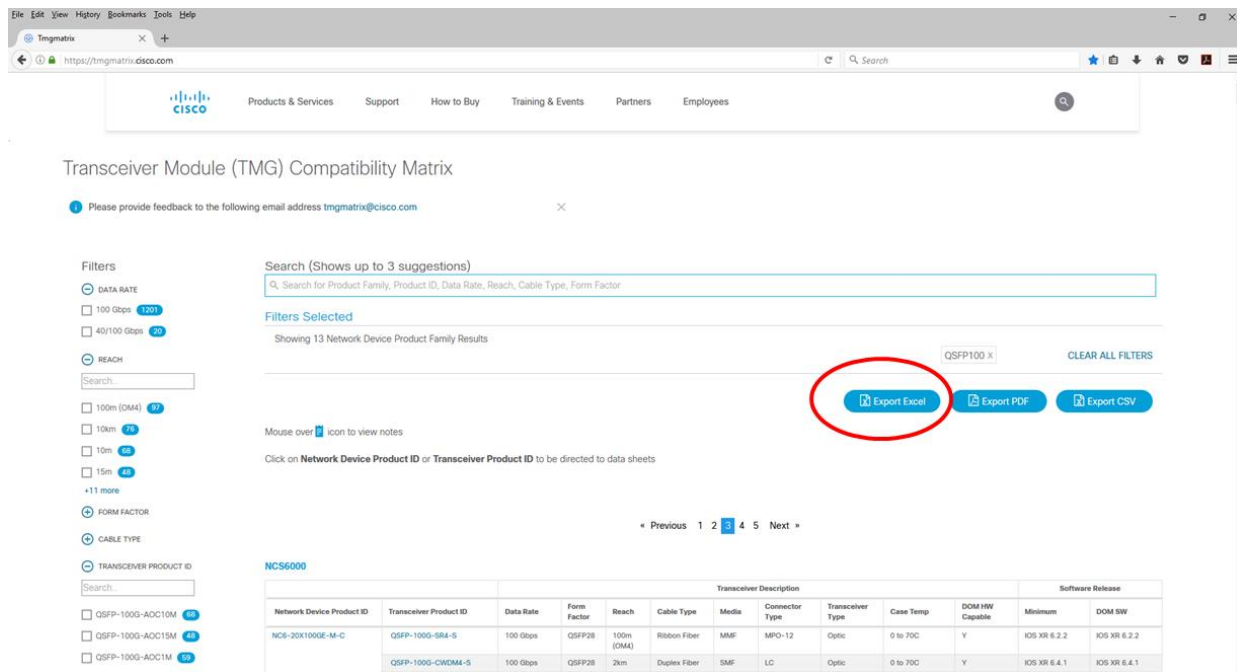
- The filter categories on the side bar will not appear again in the pop-up box (circled in RED)
- The heading allows you to select the first character of the items listed to reduce or narrow those items you are interested in





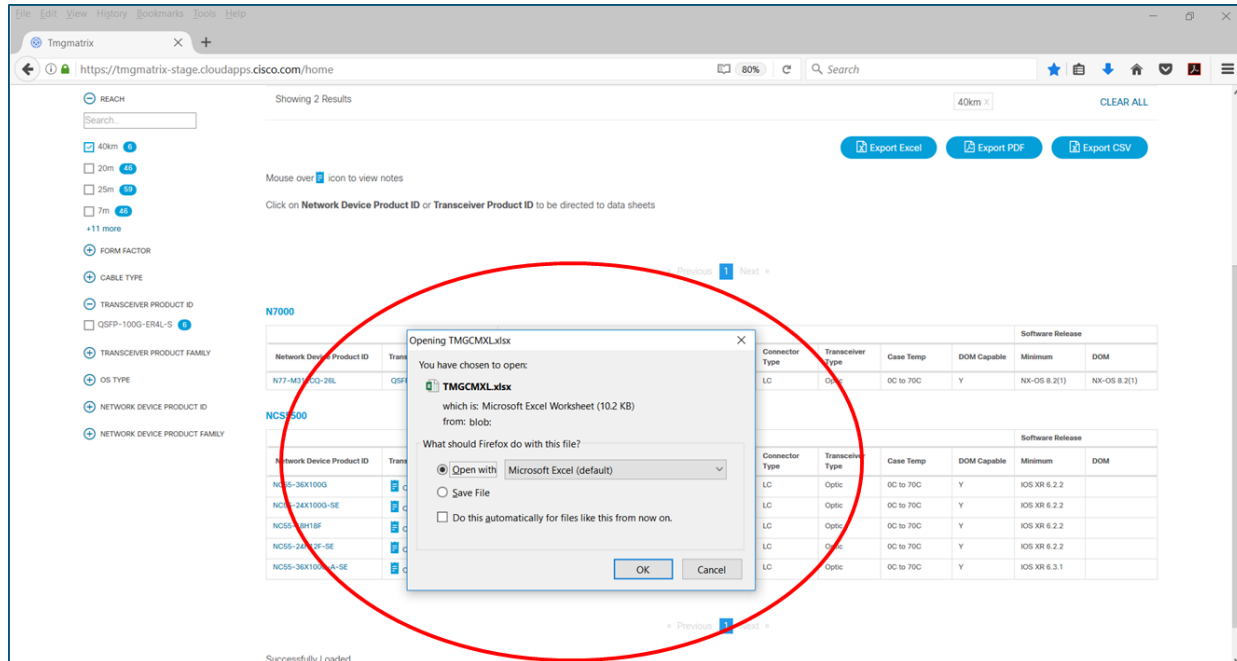
## Exporting Search Results

- There are three types of files or formats the search results can be exported to
  - Excel
  - PDF
  - CSV / Text
- Click on any of the three file export icons located at the top right of the landing page



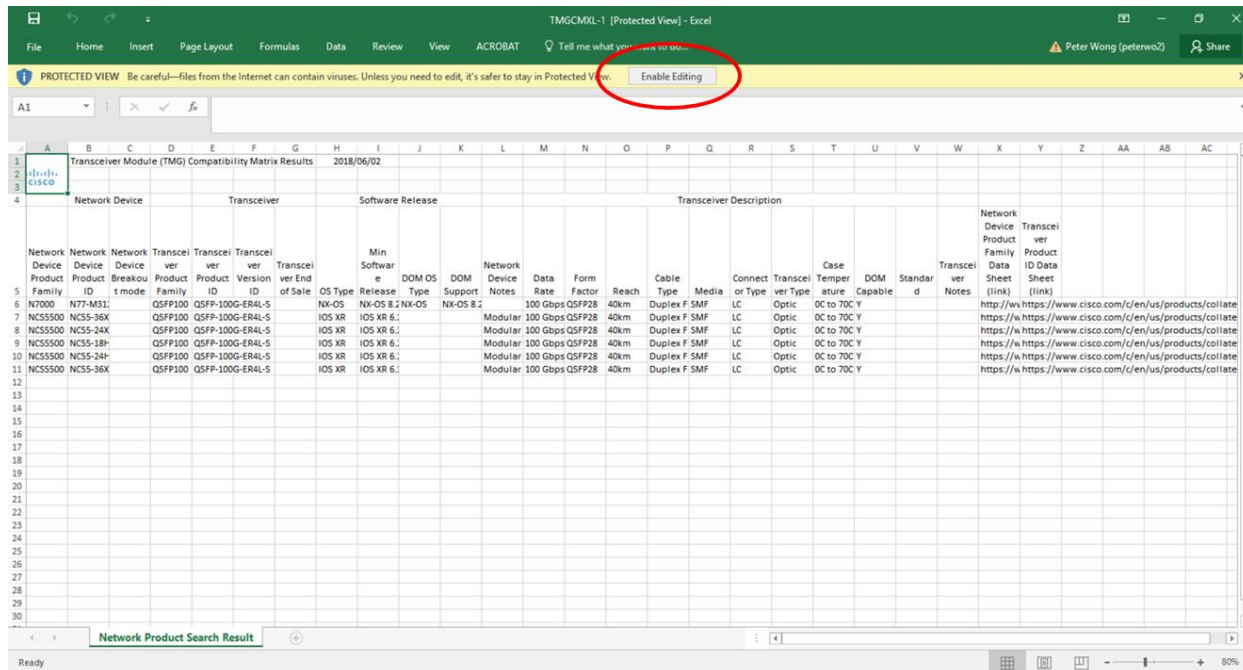
## Exporting Search Results to Excel File

- Clicking on the Excel File export icon will allow you to save a softcopy of the search results



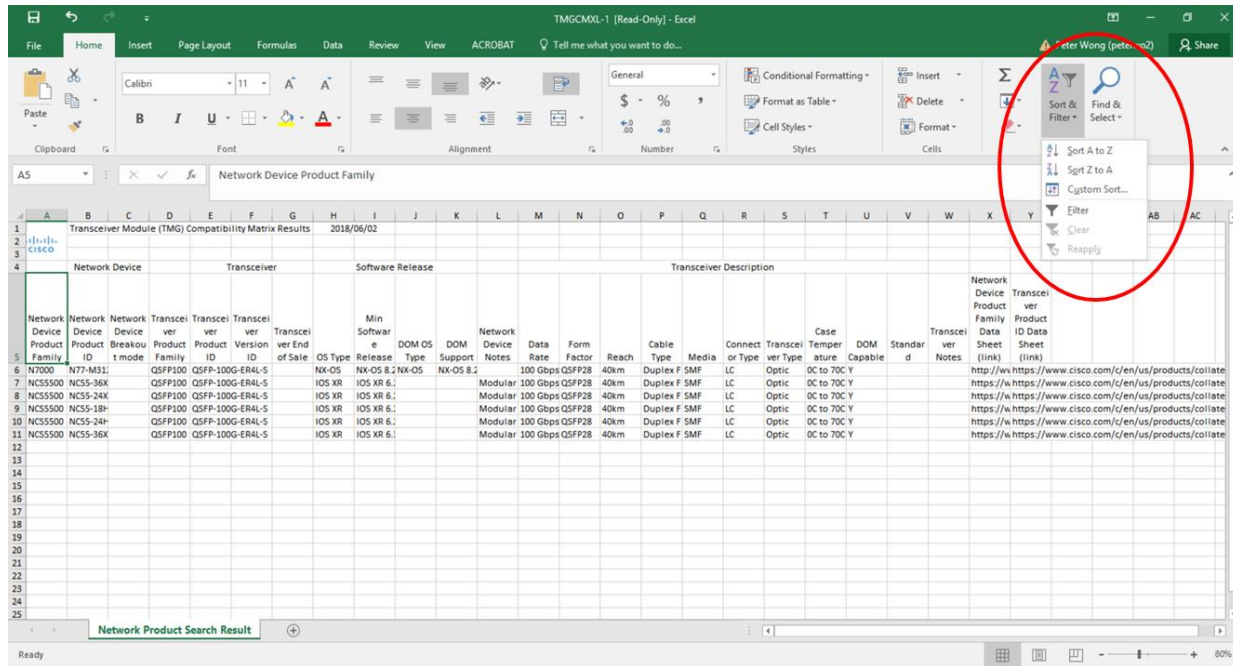
## Search Result in Excel File Format

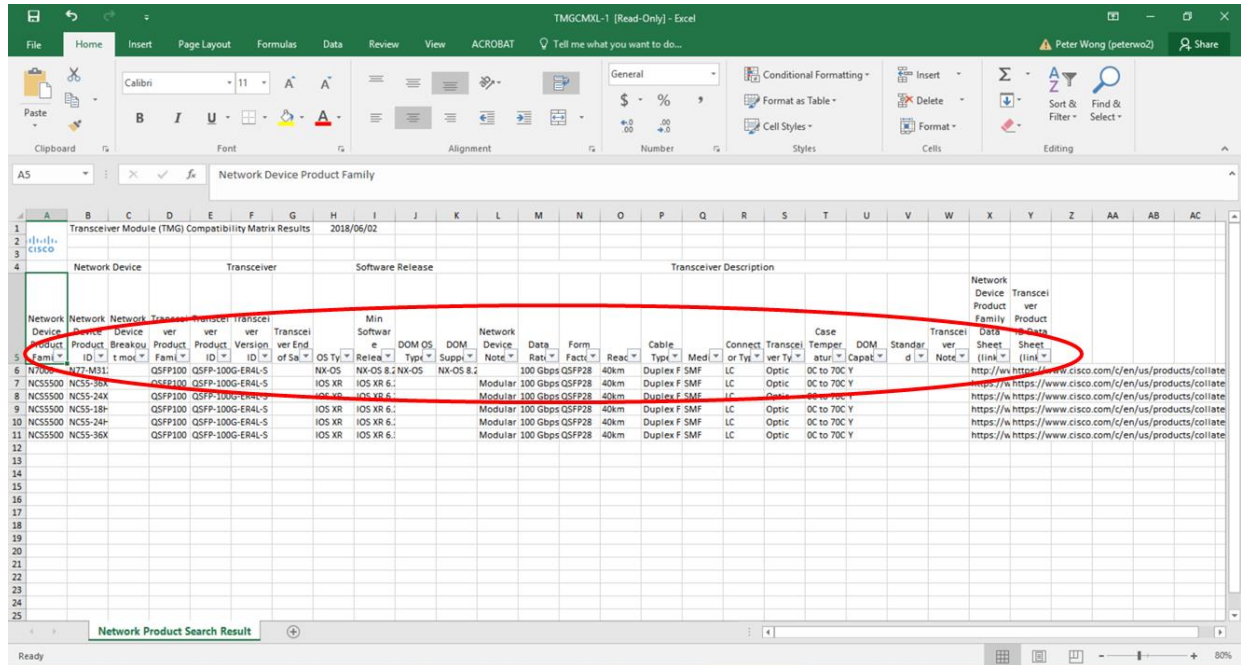
- To use the Excel file, you must click on the “Enable Editing” button highlighted in the YELLOW band



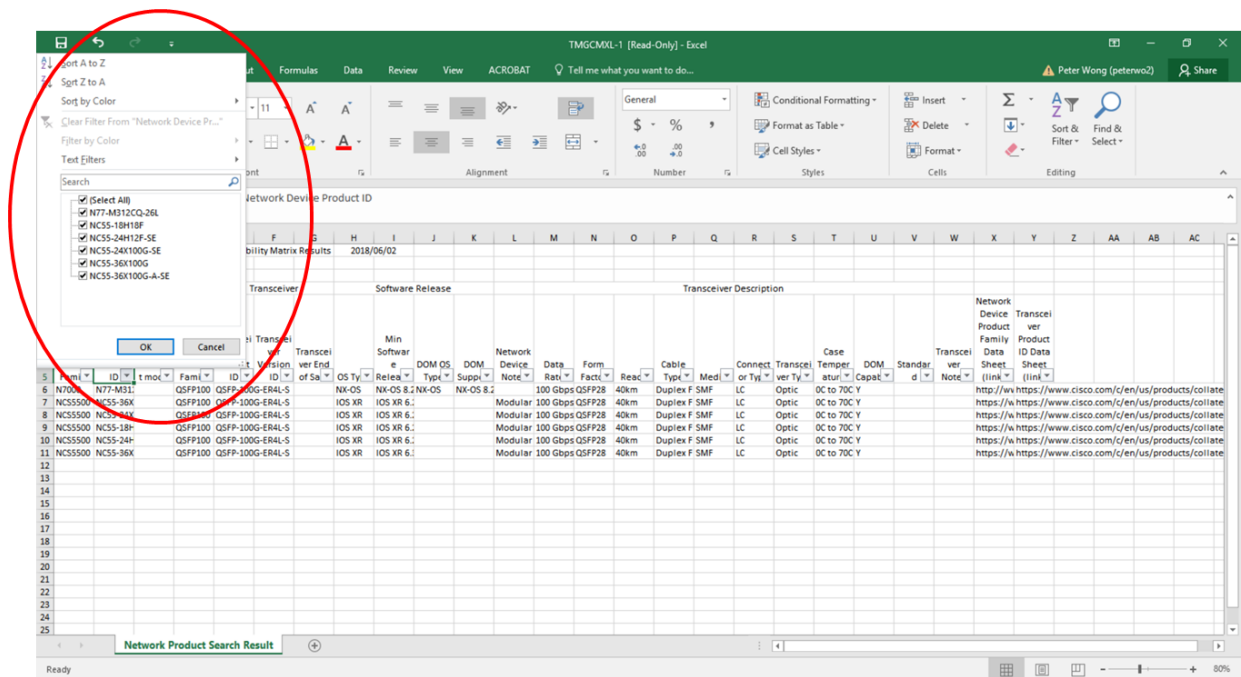
## Excel File Search Refinement using FILTER

- Select the first cell of the header row
- Click on the “Sort and Filter” button and select “Filter”



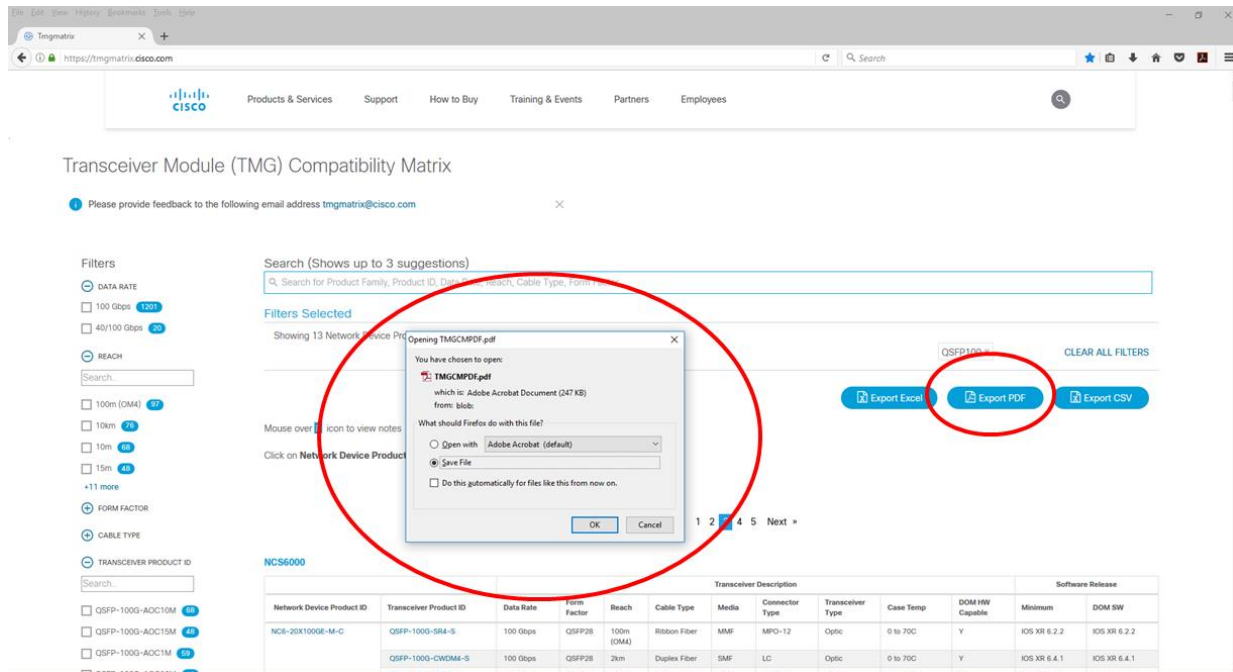


- In this example, we are selecting from the Network Device Product ID

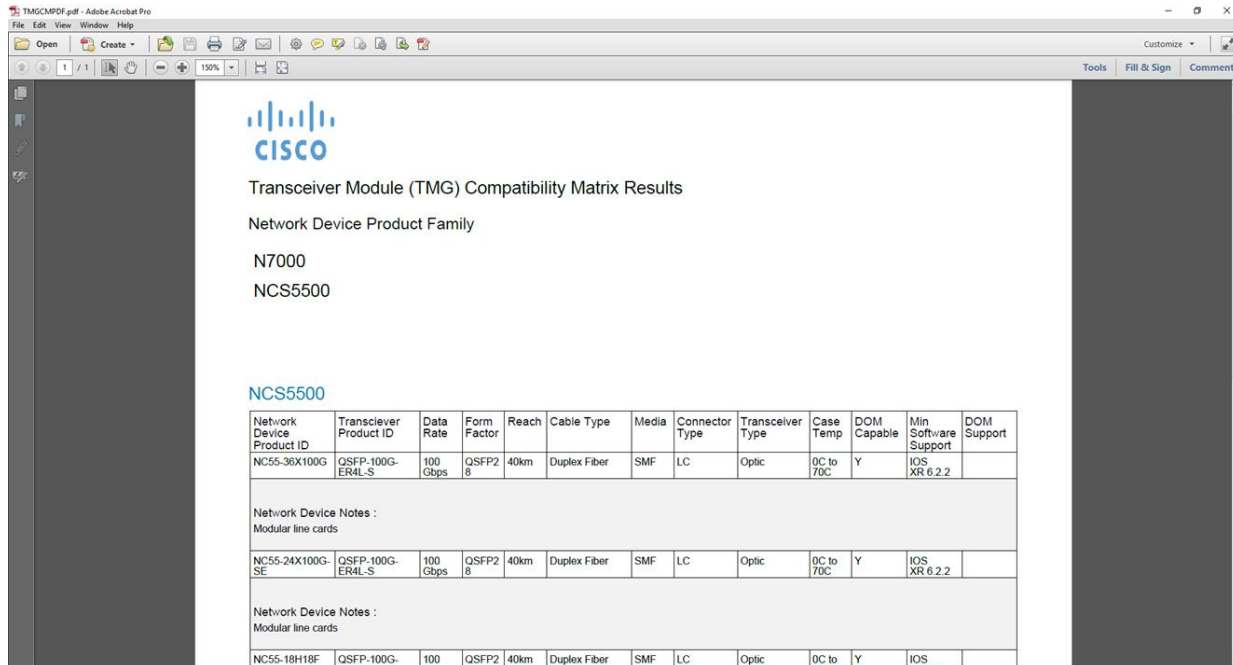


## Search Result in PDF File Format

- Clicking on the PDF File export icon will allow you to save a softcopy of the search results

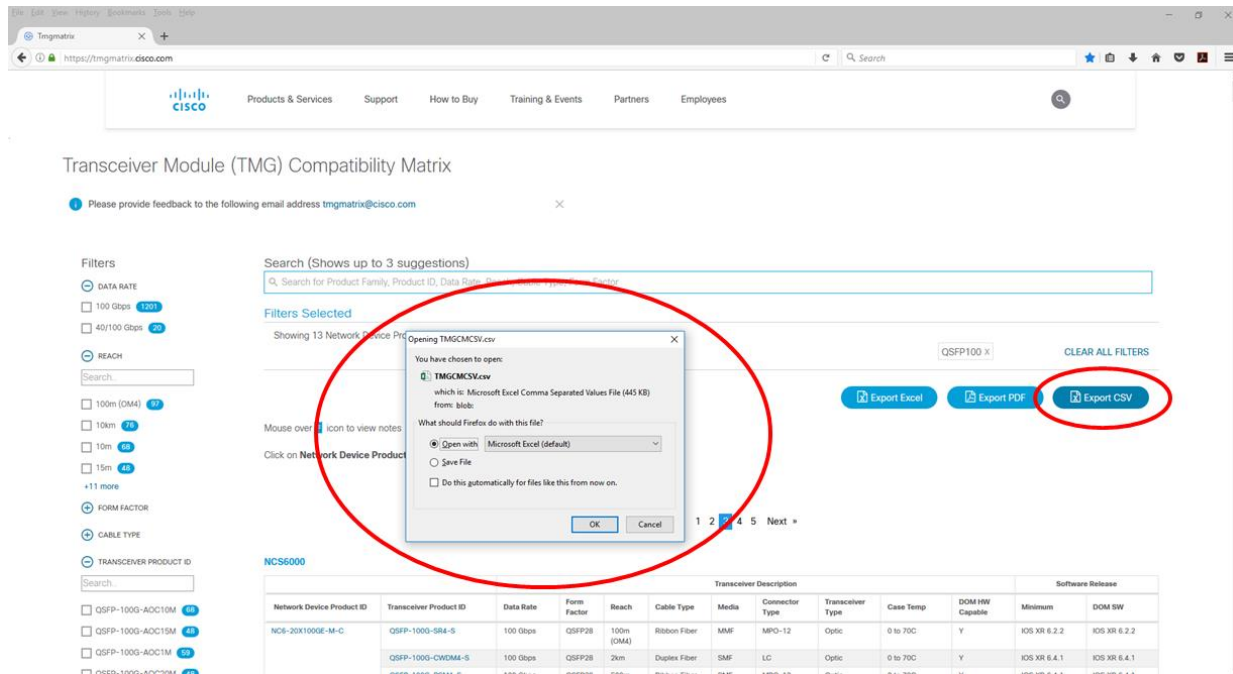


- The PDF file reflects the search result table
- If you click on the Network Device Product Family heading(s), you will be brought to heading section in the search result table in the PDF



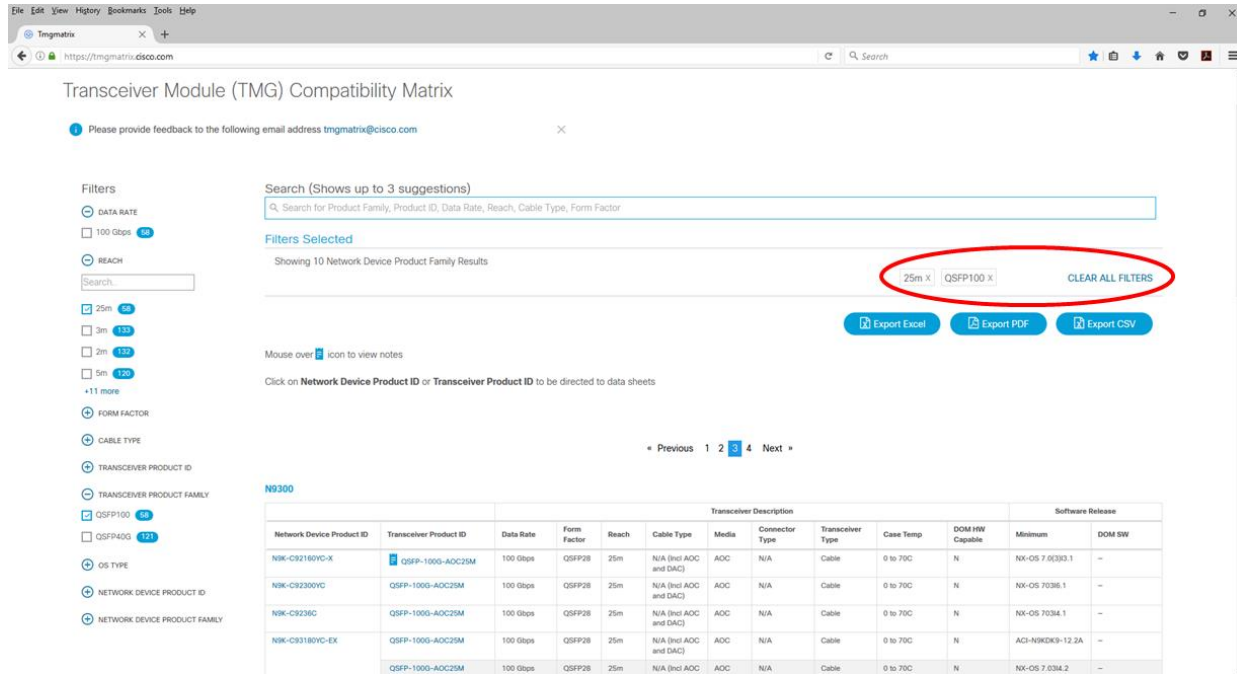
## Search Result in CSV or Text File Format

- Clicking on the CSV File export icon will allow you to save a softcopy of the search results



## Removing Filter Categories from Filter Bar

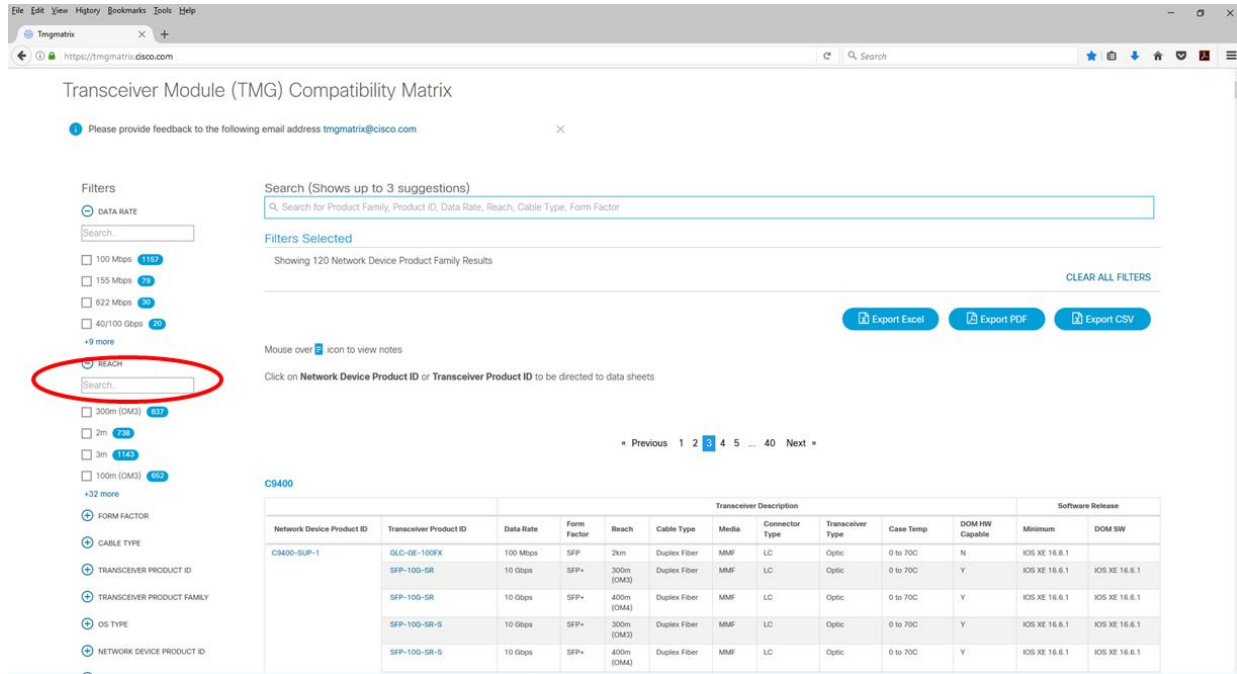
- In this example, 25km filter category in the filter bar
- You can remove it by clicking on 25km and QSFP100 buttons
- Or, CLEAR ALL button



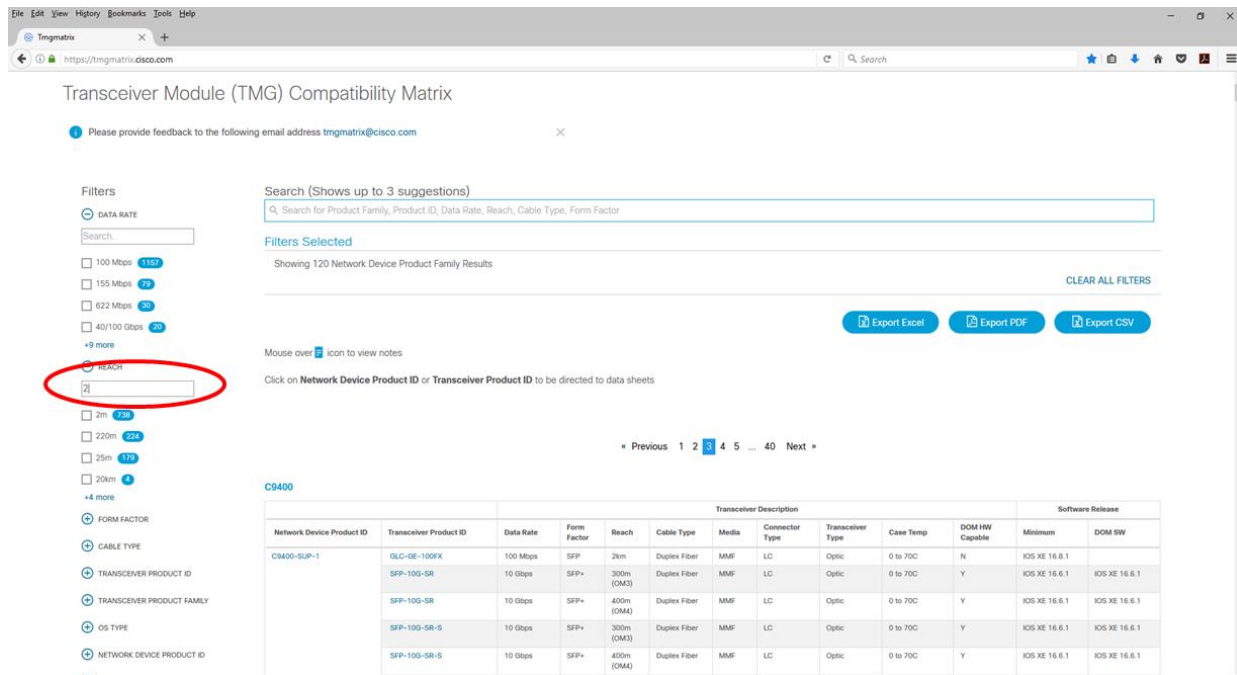
## Search Window in Filter Category

- Typing in the search window will narrow the items in the filter category
- In this example, if you type “2” in the Reach category...



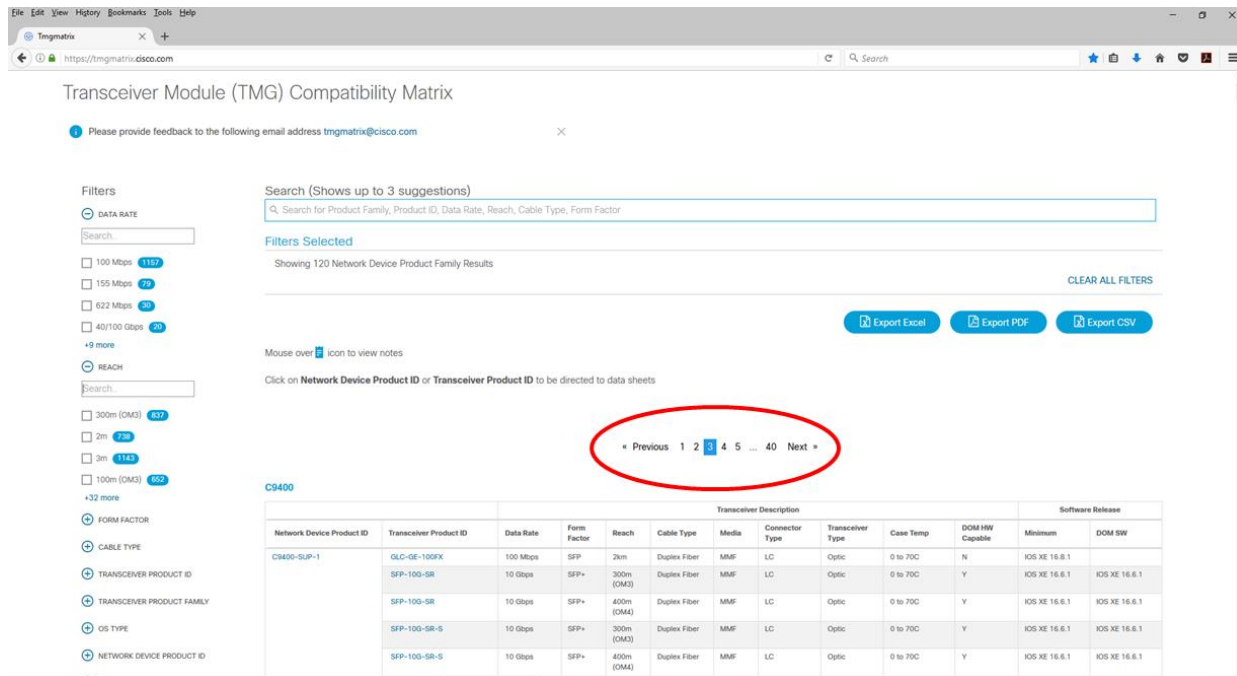


- ...only items with “2” in it will be shown
- You can then check the box(es) of your choice



## Pagination

- When the search results exceed the display length, you can go to the next page by clicking on
  - the page number
  - “Next” button



## Datasheet Links for Network Device and Transceiver Product ID

- You can access the datasheet for Transceiver Product ID by clicking on it (highlighted in BLUE)
- In this example, we are looking for QSFP-100G-SR4
- You can see the webpage link at the bottom of the display

# User Manual for Compatibility Matrix Tool

## QSFP-100G Modules Data Sheet Example

Transceiver Module (TMG) Compatibility Matrix

Please provide feedback to the following email address [tmgmatrix@cisco.com](mailto:tmgmatrix@cisco.com)

Filters:

- DATA RATE
  - 40/100 Gbps 20
  - 100 Gbps 1203
- REACH
  - 3m 133
  - 2m 132
  - 5m 120
  - 25m 68
  - +11 more
- FORM FACTOR
- CABLE TYPE
- TRANSCEIVER PRODUCT ID
- TRANSCEIVER PRODUCT FAMILY
  - XFP 244
  - WDM 1450
  - X2 329
  - CFP100G 13
  - +11 more
  - OS TYPE

Search (Shows up to 3 suggestions)

Filters Selected: QSFP100 X CLEAR ALL FILTERS

Showing 13 Network Device Product Family Results

Export Excel Export PDF Export CSV

Mouse over icon to view notes

Click on Network Device Product ID or Transceiver Product ID to be directed to data sheets

Previous 1 2 3 4 5 Next

Network Device Product ID	Transceiver Product ID	Transceiver Description									Software Release	
		Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM HW Capable	Minimum	DOM SW
NCS-20X100GE-M-C	QSFP-100G-SR4-S	100 Gbps	QSFP28	100m (OMA)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	IOS XR 6.2.2	IOS XR 6.2.2
	QSFP-100G-CWDM4-S	100 Gbps	QSFP28	2km	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	IOS XR 6.4.1	IOS XR 6.4.1
	QSFP-100G-PSM4-S	100 Gbps	QSFP28	500m	Ribbon Fiber	SMF	MPO-12	Optic	0 to 70C	Y	IOS XR 6.4.1	IOS XR 6.4.1
	QSFP-100G-LR4-S	100 Gbps	QSFP28	10km	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	IOS XR 6.2.2	IOS XR 6.2.2
NCS-20X100GE-L-C	QSFP-100G-SM-SR	100 Gbps	QSFP28	2km	Duplex Fiber	SMF	LC	Optic	10 to 60C	Y	IOS XR 6.4.1	IOS XR 6.4.1
	QSFP-100G-SR4-S	100 Gbps	QSFP28	100m (OMA)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	IOS XR 6.2.2	IOS XR 6.2.2

## QSFP-100G Modules Data Sheet Example

Products & Services / Cisco Interfaces and Modules / Cisco Transceiver Modules / Data Sheets /

### Cisco 100GBASE QSFP-100G Modules Data Sheet

Download Print

Updated: May 2, 2018 Document ID: 182b9c9c-40ed-4cde-b474-2ad5b3500d01

**Product Overview**

The Cisco® 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications. The QSFP-100G modules are our new generation of 100G transceiver modules solution based on a QSFP form factor. (See Figure 1.)

**Figure 1. QSFP-100G Optical Modules**

**Features and Benefits of Cisco QSFP Modules**

- Hot-swappable input/output device that plugs into a 100G Gigabit Ethernet Cisco QSFP port
- Interoperable with other IEEE-compliant 100GBASE interfaces where applicable

Transferring data from tools.cisco.com... QSFP-100G ports for superior performance, quality, and reliability

**Contact Cisco**

Contact Us

Email Us | Request a Price

Find a Local Reseller

Call 1 800 553 6387  
US/CAN | 5am-5pm PT

Other Countries

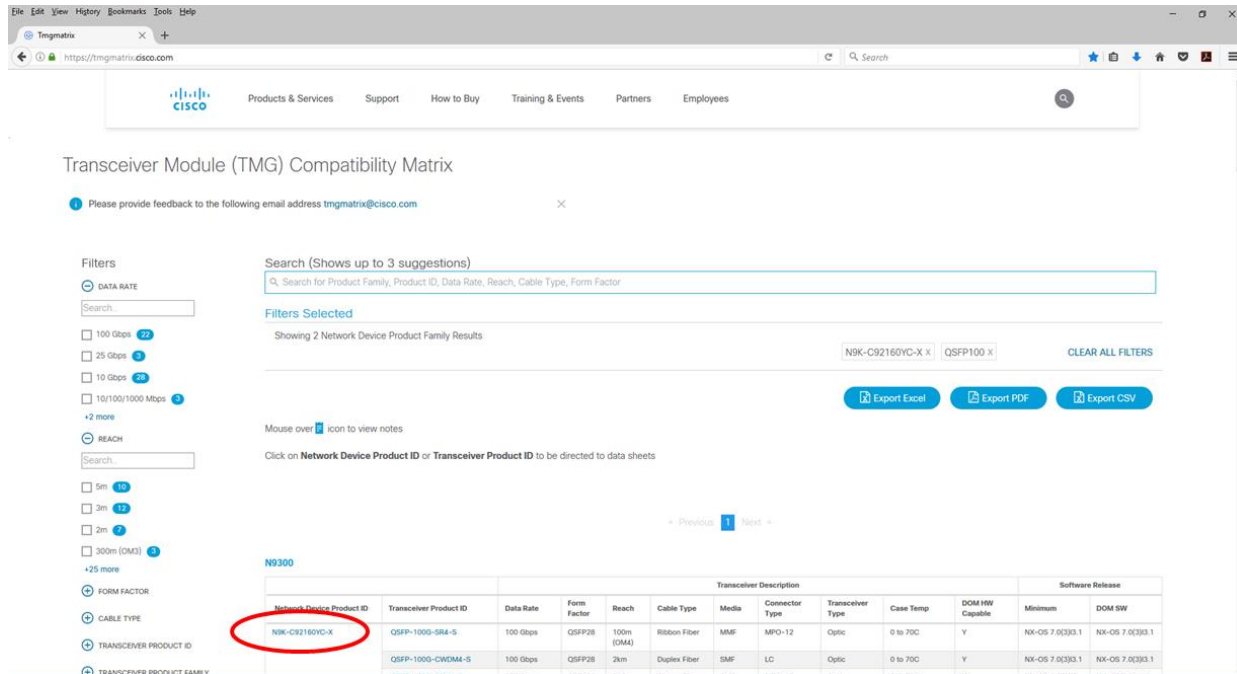
Viewers of This Document Also Viewed

Cisco 100-Gigabit Transceiver Modules Compatibility Matrix

Cisco 100GBASE QSFP Modules

## Datasheet Links for Network Device and Transceiver Product ID

- You can access the datasheet for Network Device Product ID by clicking on it (highlighted in BLUE)
- In this example, we are looking for N9K-C92160YC-X
- You can see the webpage link at the bottom of the display



## Cisco Nexus 9000 Data Sheet Example

The screenshot shows a web browser displaying the Cisco Nexus 9000 Series Switches product page. The browser's address bar shows the URL: <https://www.cisco.com/c/en/us/products/switches/nexus-9000-series-switches/index.html>. The page features the Cisco logo at the top center, a search bar, and a navigation menu. The main heading is "Cisco Nexus 9000 Series Switches". Below the heading, there is a sub-heading "Build a next-generation automated data center" and a paragraph describing the switches' capabilities: "Prepare your data center for growing number of users and complicated apps. Our Nexus 9000 Series delivers proven high performance and density, low latency, and exceptional power efficiency in a range of form factors. The switches are highly programmable and industry leading SDN for data center automation." To the left of this text is an image of four different Nexus 9000 switch models. A "Watch video" button is located below the image. At the bottom of the page, there is a section titled "Get industry-leading performance with Cloud Scale" with two columns of benefits: "Performance and scale" (Get scale and investment protection with 1/10/25/50/100/400G multi-speed ports) and "Deep visibility and security" (Industry-leading security and visibility with streaming telemetry, advance analytics, and line-rate encryption (MACsec)).

Products & Services / Switches / Data Center Switches /

## Cisco Nexus 9000 Series Switches

Build a next-generation automated data center

Prepare your data center for growing number of users and complicated apps. Our Nexus 9000 Series delivers proven high performance and density, low latency, and exceptional power efficiency in a range of form factors. The switches are highly programmable and industry leading SDN for data center automation.

[Watch video](#)

[Products](#) [Features](#) [Services](#) [Resources](#) [Support](#) [For Partners](#) [Partner Help](#)

### Get industry-leading performance with Cloud Scale

- Performance and scale**  
Get scale and investment protection with 1/10/25/50/100/400G multi-speed ports.
- Deep visibility and security**  
Industry-leading security and visibility with streaming telemetry, advance analytics, and line-rate encryption (MACsec).