



User Manual for Compatibility Matrix Tool

Revised: June 24, 2025

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

Table of Contents

Introduction	2
TMG Compatibility Matrix Tool Landing Page	2
Search Window Example	3
Full TMG Compatibility Matrix Tool Layout	4
Access Notes using Mouse-over / Hover	5
Expandable Filter Categories	6
Display More Filter Categories.....	7
Exporting Search Results	9
Exporting Search Results to Excel File	9
Search Result in Excel File Format	10
Excel File Search Refinement using FILTER.....	11
Search Result in PDF File Format	13
Search Result in CSV or Text File Format	14
Removing Filter Categories from Filter Bar.....	15
Search Window in Filter Category.....	16
Pagination	18
Datasheet Links for Network Device and Transceiver Product ID	18
QSFP-100G Modules Data Sheet Example	19
Datasheet Links for Network Device and Transceiver Product ID	20

Cisco Nexus 9000 Data Sheet Example 20

Introduction

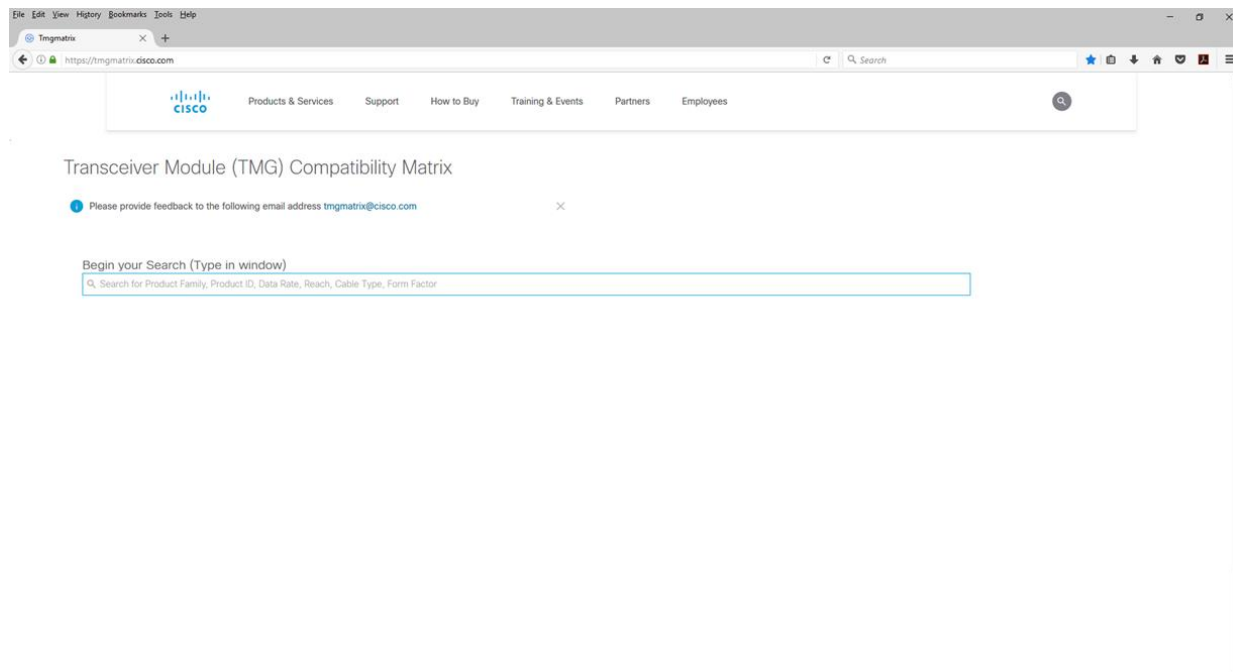
The current compatibility matrix allows users, typically Cisco customers and sales, to determine what transceivers are supported in Cisco hardware devices such as switches/routers and line cards/modules. The information is displayed in a table format that is rigid and hard to find.

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

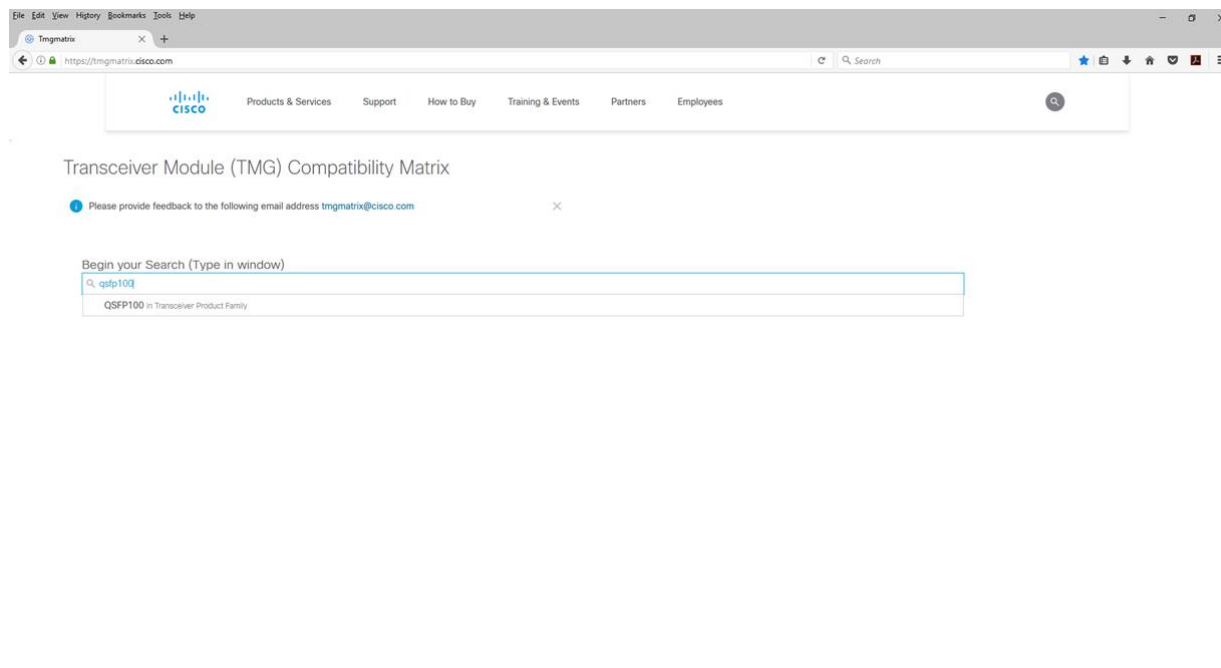
- Type: <https://tmgmatrix.cisco.com/home> to arrive at the TMG Compatibility Matrix Tool landing page to begin using the application
- Enter: any Network Device Product Family, Network Device Product ID, Transceiver Product Family, Transceiver Product ID, Data Rate, Reach, Cable Type, Form Factor at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

Search Window Example



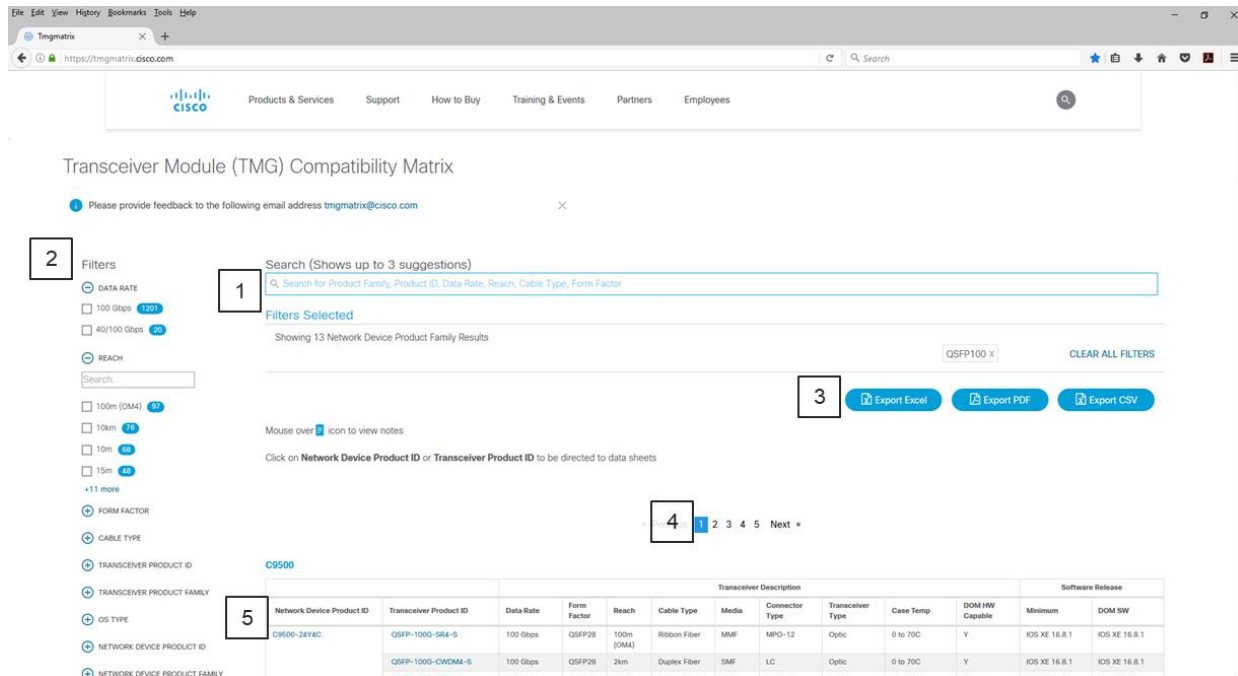
Search Window Example

- 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	QSFP-100G-SR4-S	100 Gbps	QSFP28	100m (OM4)	Ribbon Fiber	MMF	MPO-12	Optic	0 to 70C	Y	FXOS 1.1.4	
	QSFP-100G-LRM-S	100 Gbps	QSFP28	100m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	FXOS 1.1.4	
	QSFP-100G-AOC1M	100 Gbps	QSFP28	1m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC2M	100 Gbps	QSFP28	2m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC3M	100 Gbps	QSFP28	3m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC5M	100 Gbps	QSFP28	5m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC7M	100 Gbps	QSFP28	7m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC10M	100 Gbps	QSFP28	10m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC15M	100 Gbps	QSFP28	15m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
	QSFP-100G-AOC20M	100 Gbps	QSFP28	20m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--
QSFP-100G-AOC25M	100 Gbps	QSFP28	25m	N/A (Incl AOC and DAC)	AOC	N/A	Cable	0 to 70C	N	FXOS 1.1.4	--	
QSFP-100G-AOC30M	100 Gbps	QSFP28	30m	N/A (Incl AOC and DAC)	AOC	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	QSFP-100G-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
	QSFP-100G-CWDM-S	100 Gbps	QSFP28	2km	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	NK-OS 7.0(3)3.1
	QSFP-100G-PSDM-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
	QSFP-100G-LRM-S	100 Gbps	QSFP28	100m	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	NK-OS 7.0(3)3.1	--
	QSFP-100G-LRM-S	100 Gbps	QSFP28	2km	Duplex Fiber	SMF	LC	Optic	10 to 60C	Y	NK-OS 7.0(3)3.1	--
	Network Device (N9K-C92160YC-X)											

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

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** (circled in red)
- OS TYPE
- NETWORK DEVICE PRODUCT ID
- NETWORK DEVICE PRODUCT FAMILY

Search (Shows up to 3 suggestions)

Search for Product Family, Product ID, Data Rate, Reach, Cable Type, Form Factor

Filters Selected

Showing 13 Network Device Product Family Results

QSPF100 X CLEAR ALL FILTERS

Export Excel Export PDF Export CSV

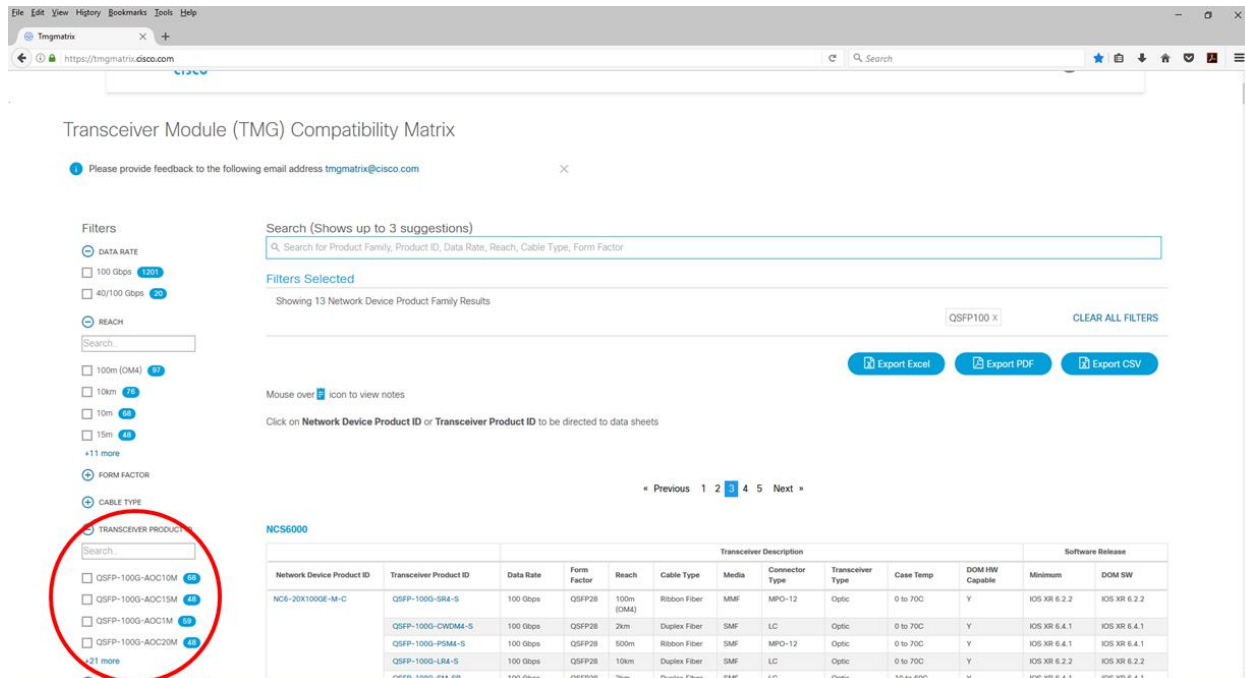
Mouse over icon to view notes

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	QSFP-100G-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
	QSFP-100G-CWDM-S	100 Gbps	QSFP28	2km	Duplex Fiber	SMF	LC	Optic	0 to 70C	Y	IOS XR 6.4.1	IOS XR 6.4.1

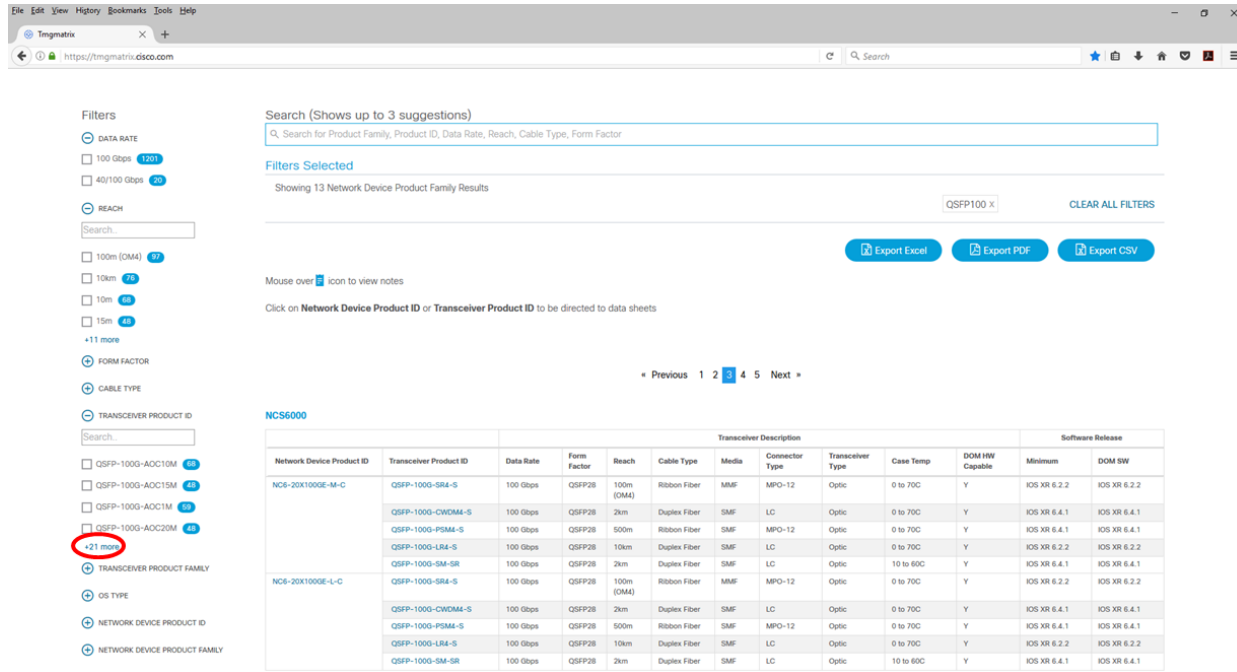
Display More Filter Categories



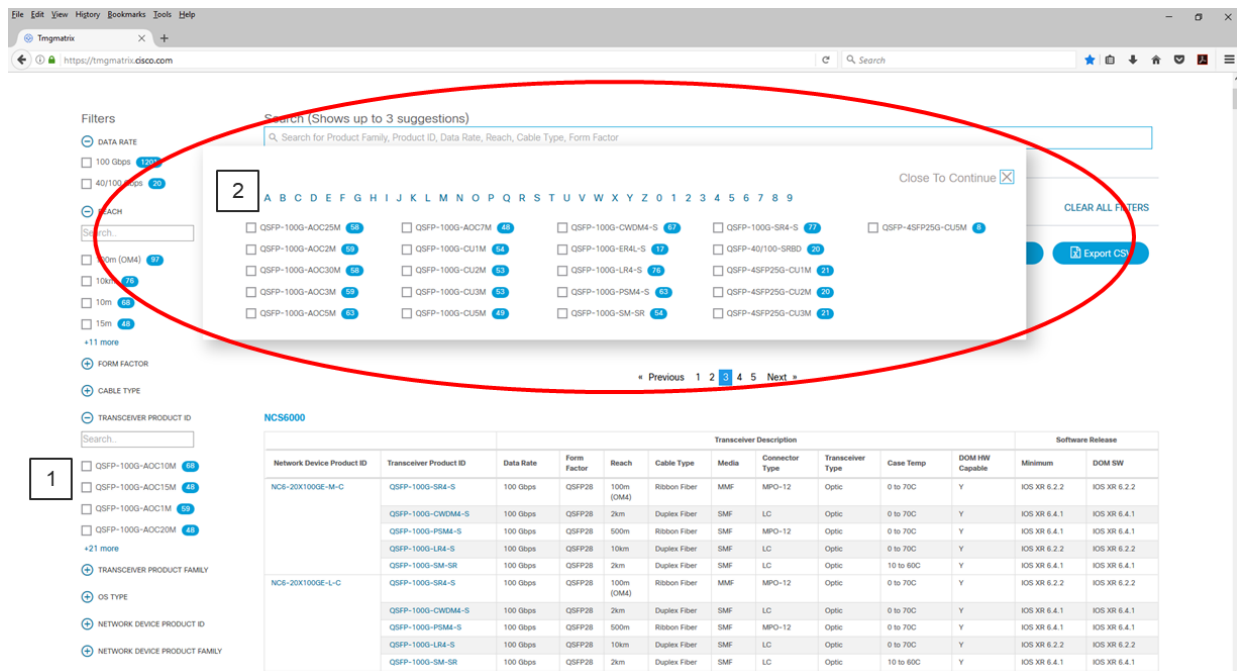
Display More Filter Categories

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

Display More Filter Categories

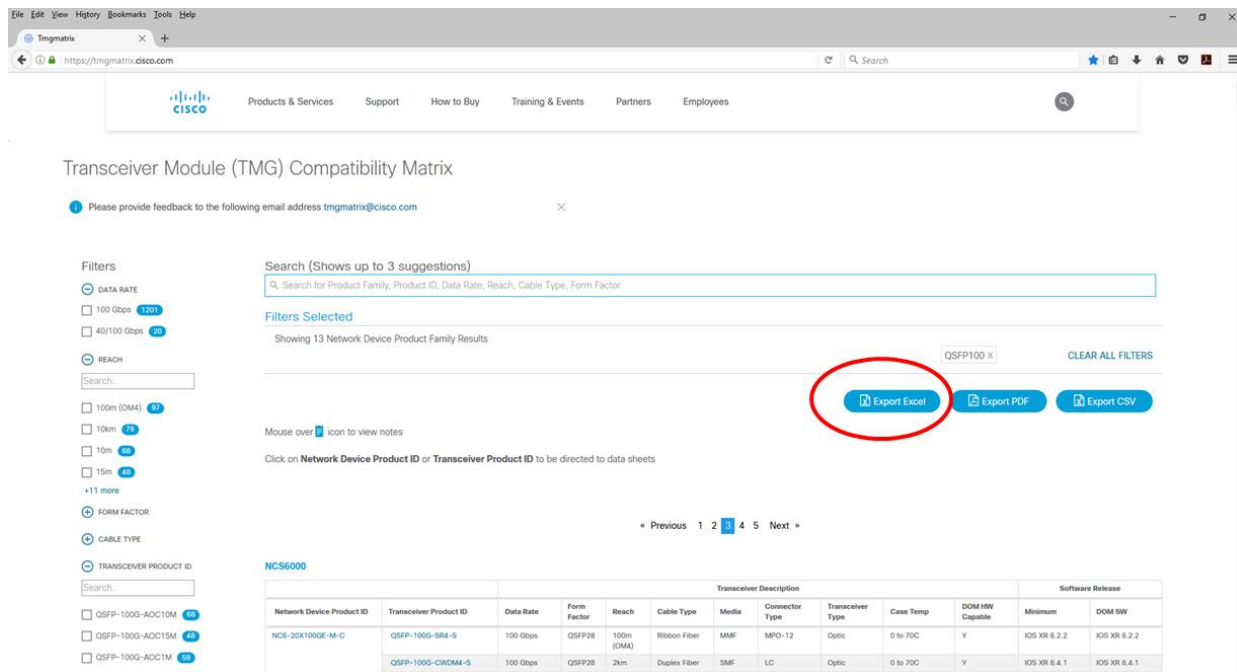


- The filter categories on the sidebar will not appear again in the pop-up box (circled in RED)
- The heading allows you to select the first character of the items listed to reduce or narrow those items you are interested in



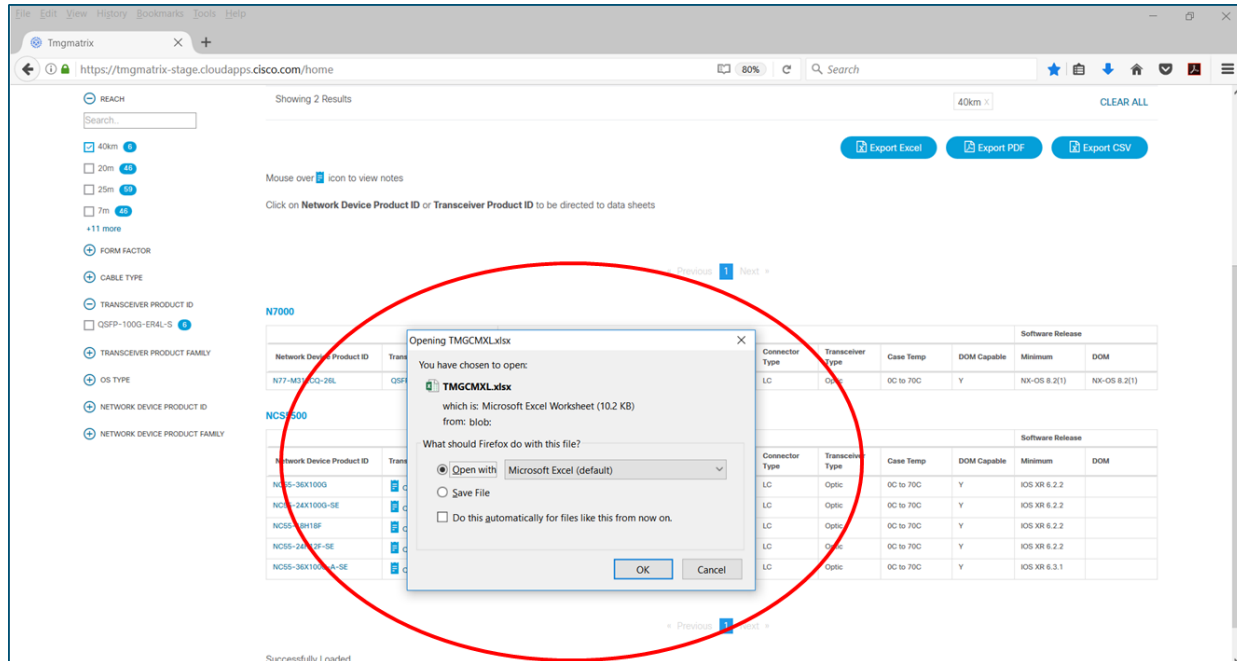
Exporting Search Results

- 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



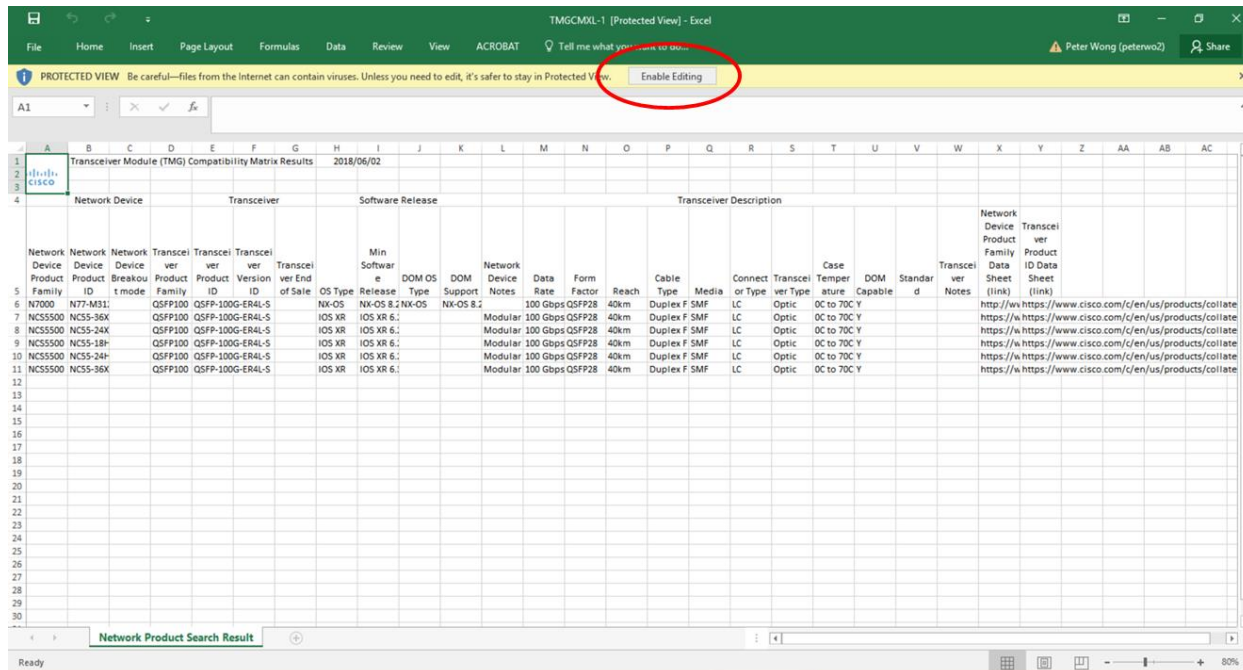
Exporting Search Results to Excel File

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



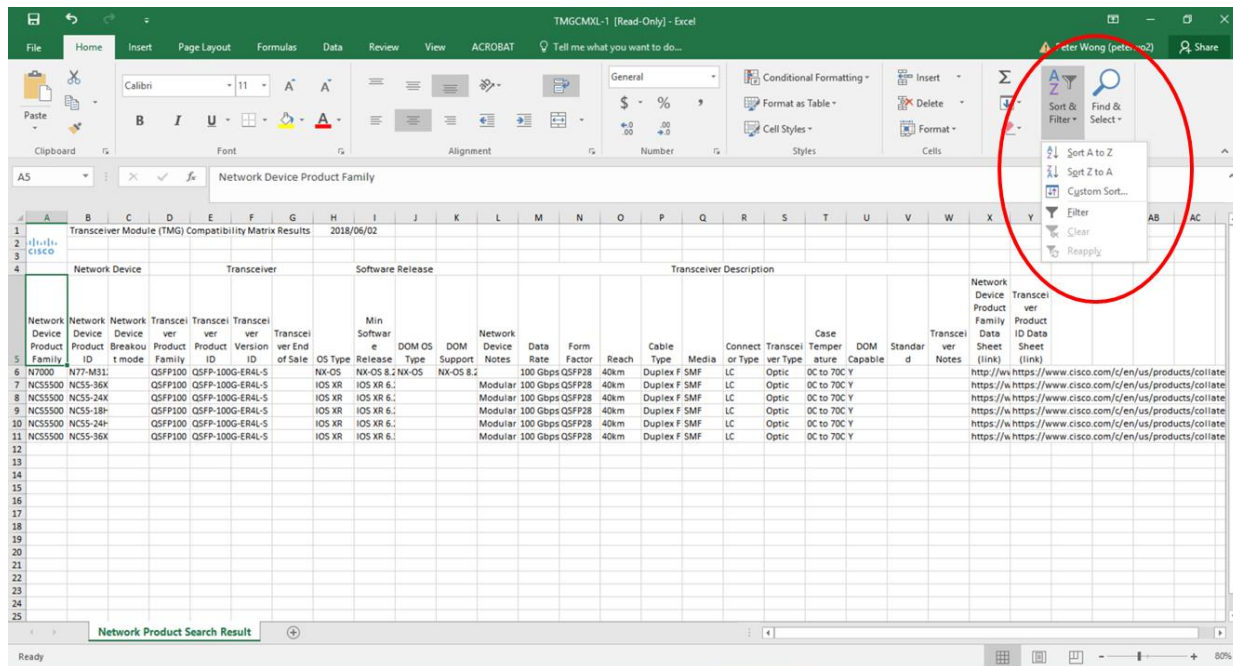
Search Result in Excel File Format

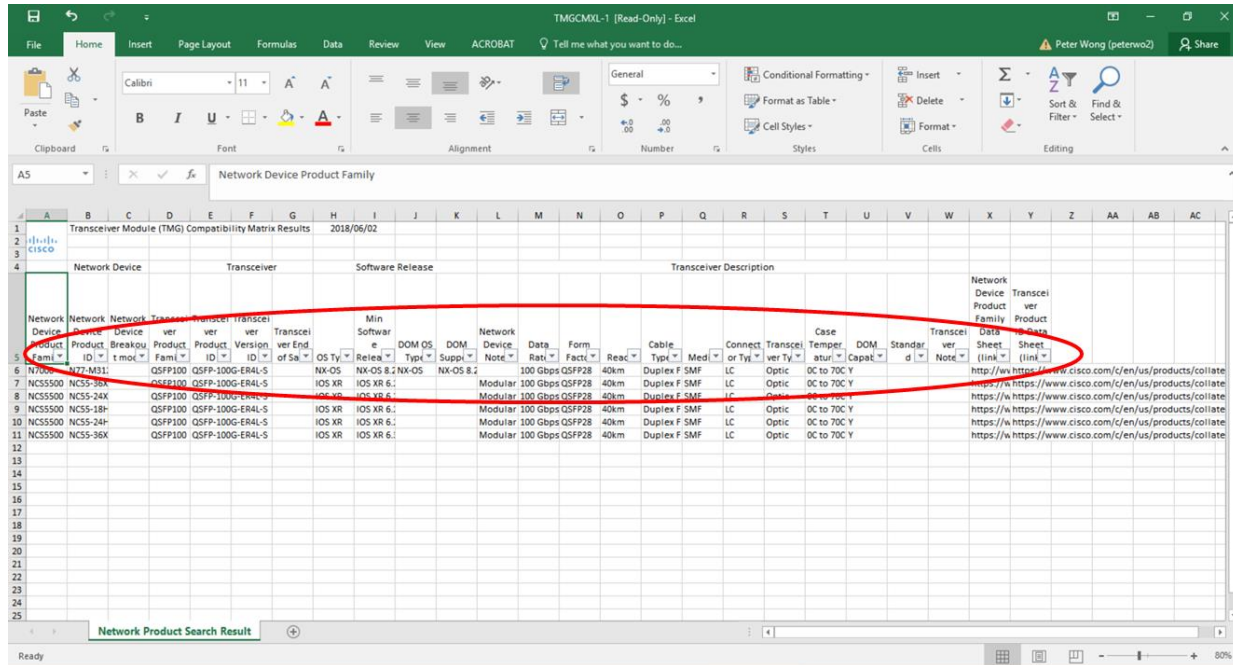
- To use the Excel file, you must click on the “Enable Editing” button highlighted in the YELLOW band



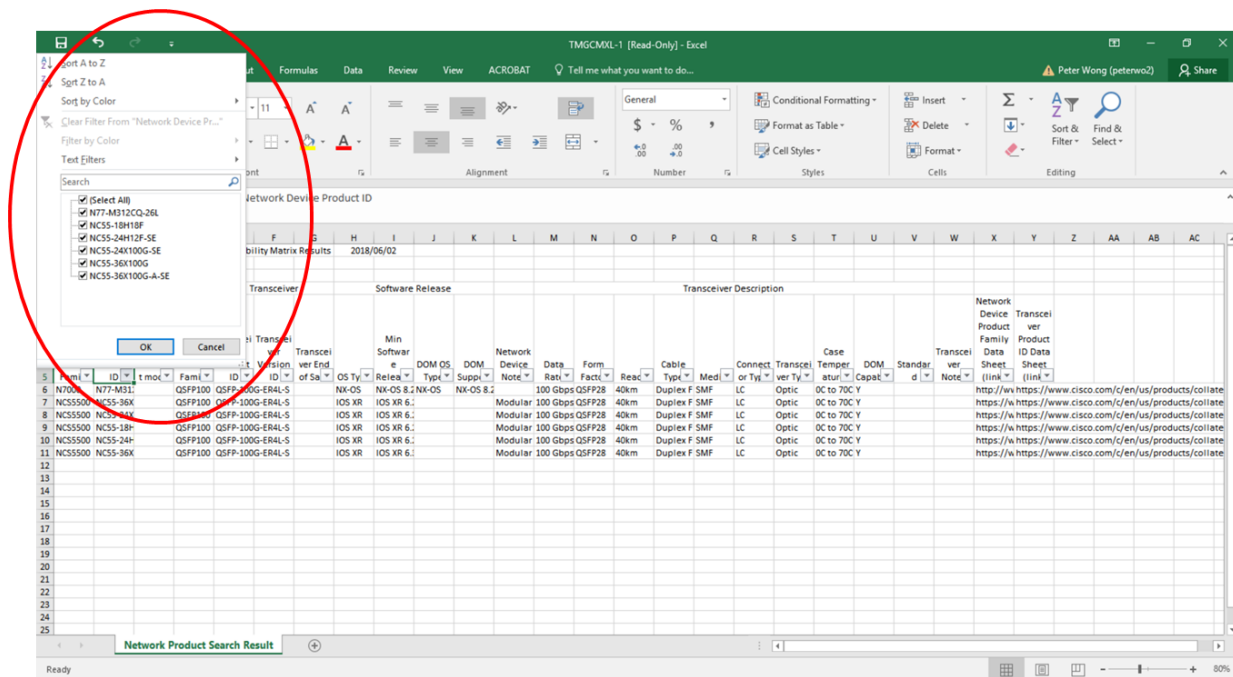
Excel File Search Refinement using FILTER

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



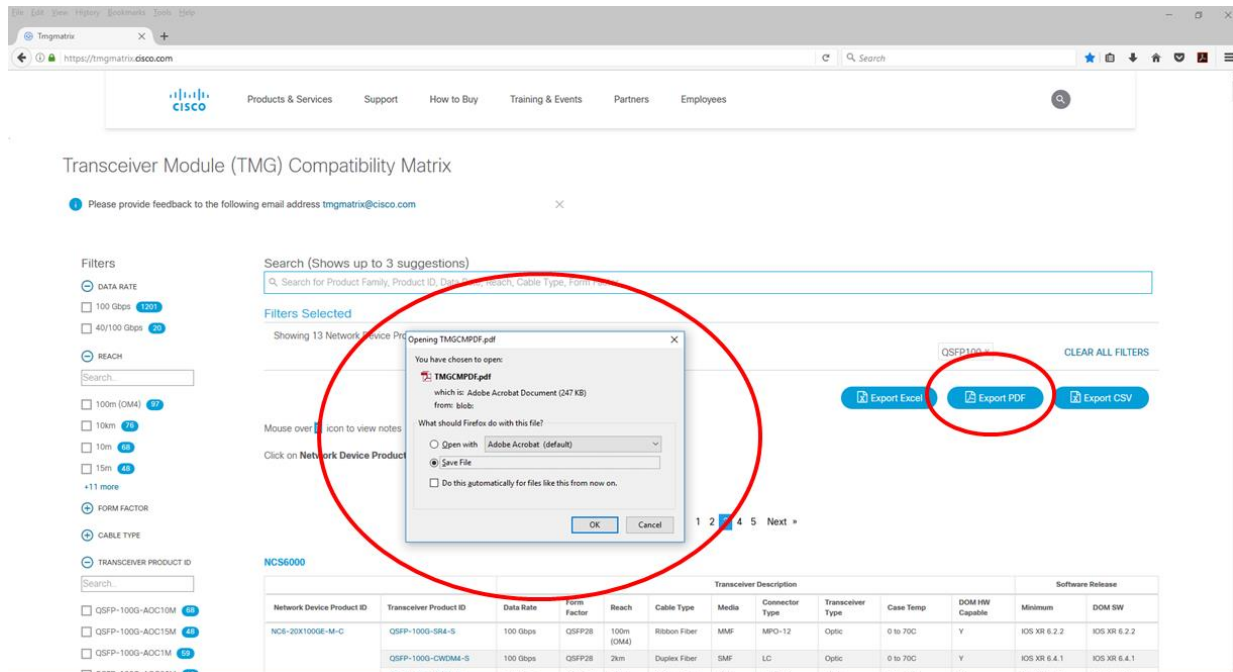


- In this example, we are selecting from the Network Device Product ID

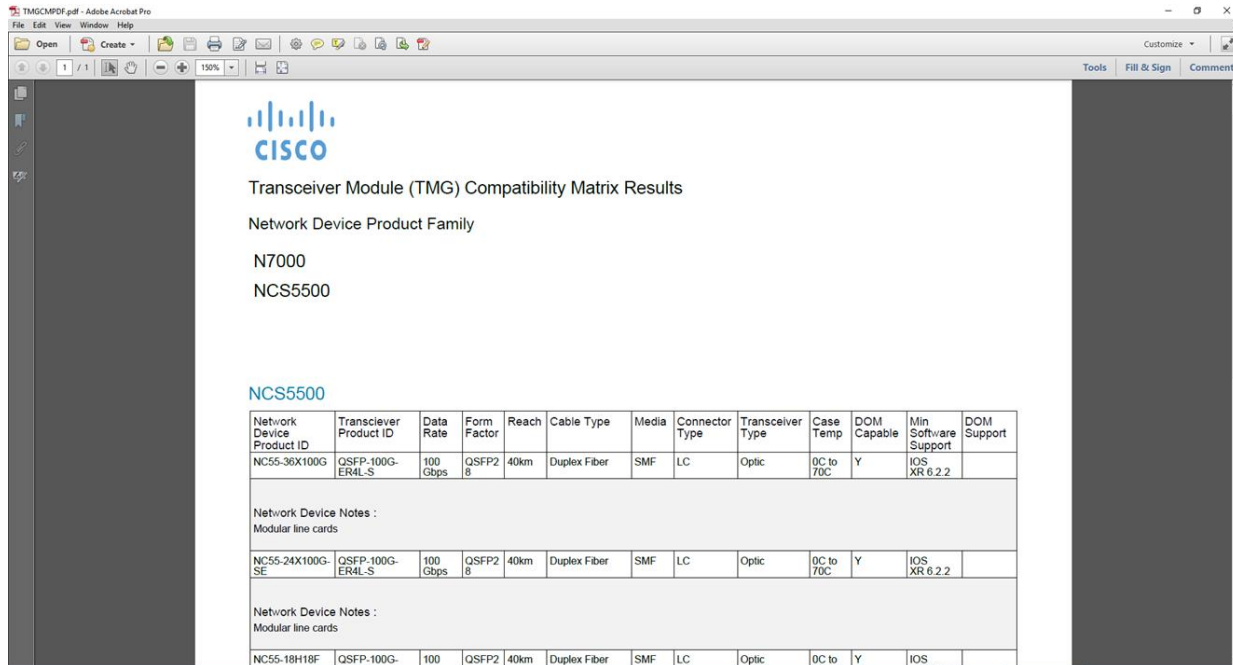


Search Result in PDF File Format

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

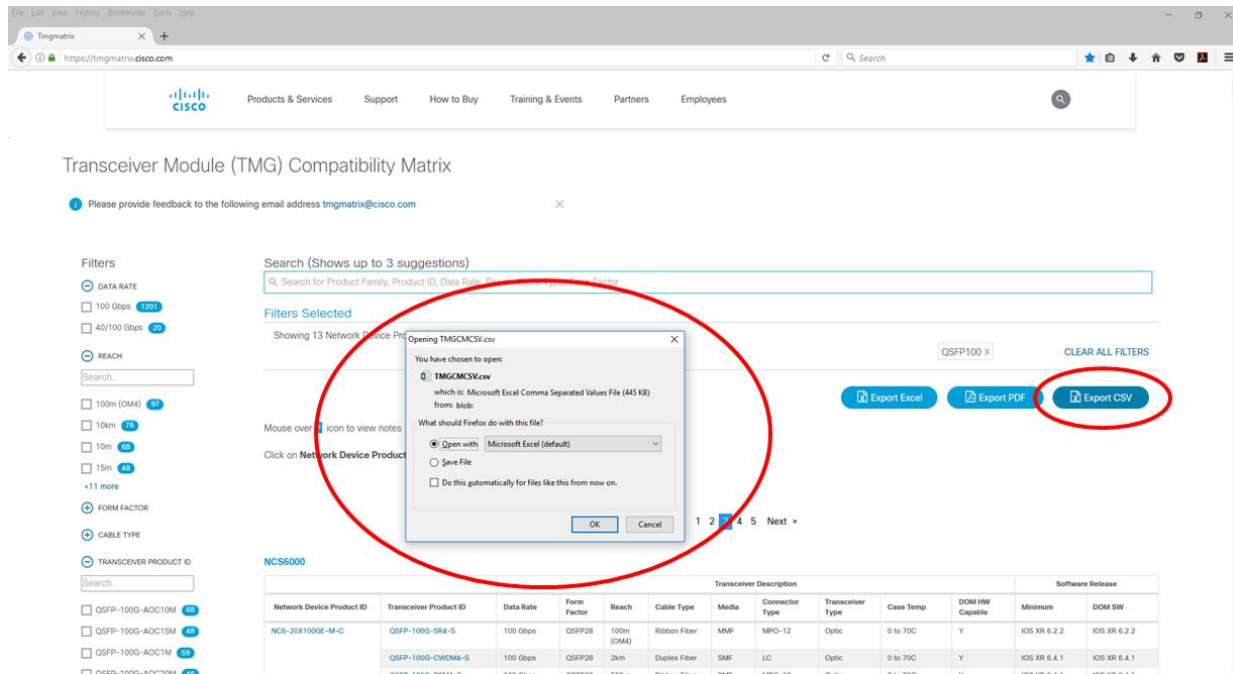


- The PDF file reflects the search result table
- If you click on the Network Device Product Family heading(s), you will be brought to heading section in the search result table in the PDF



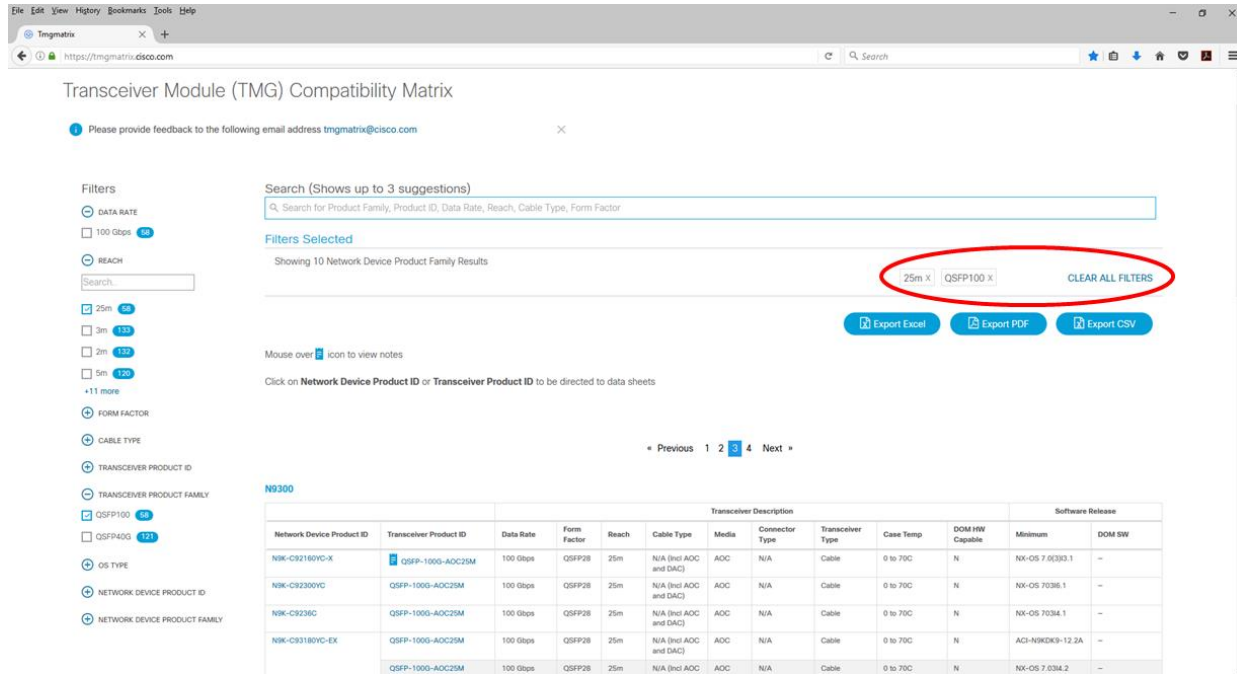
Search Result in CSV or Text File Format

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



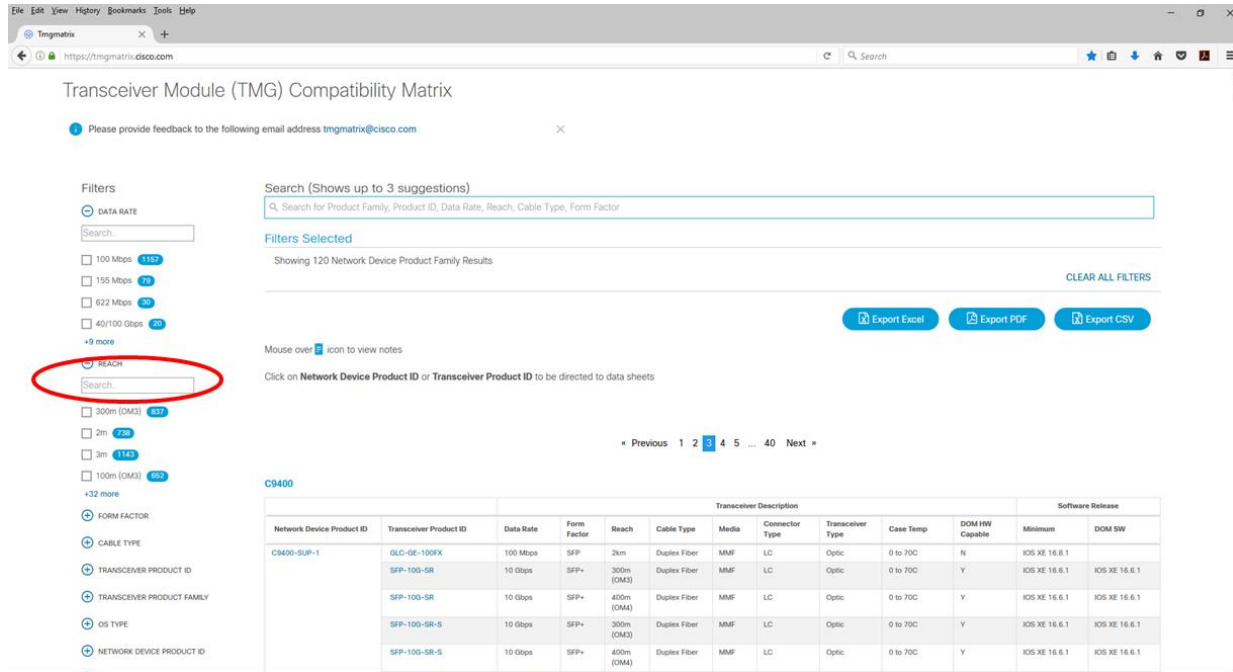
Removing Filter Categories from Filter Bar

- 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

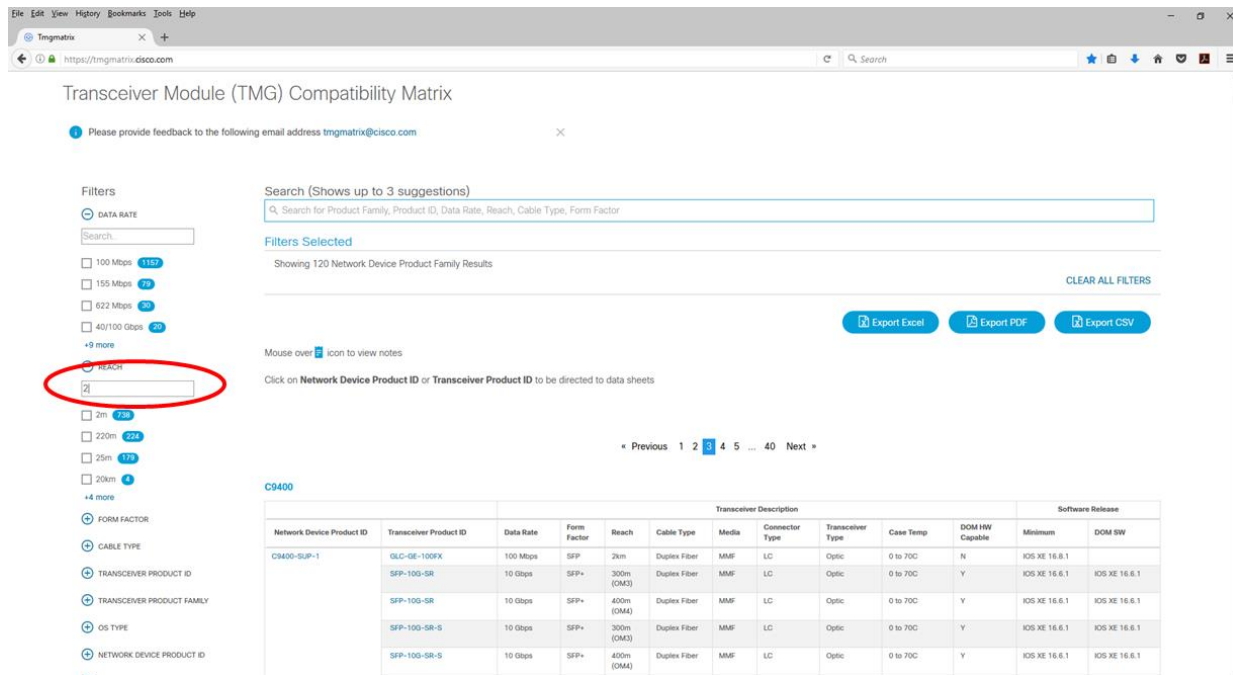


Search Window in Filter Category

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

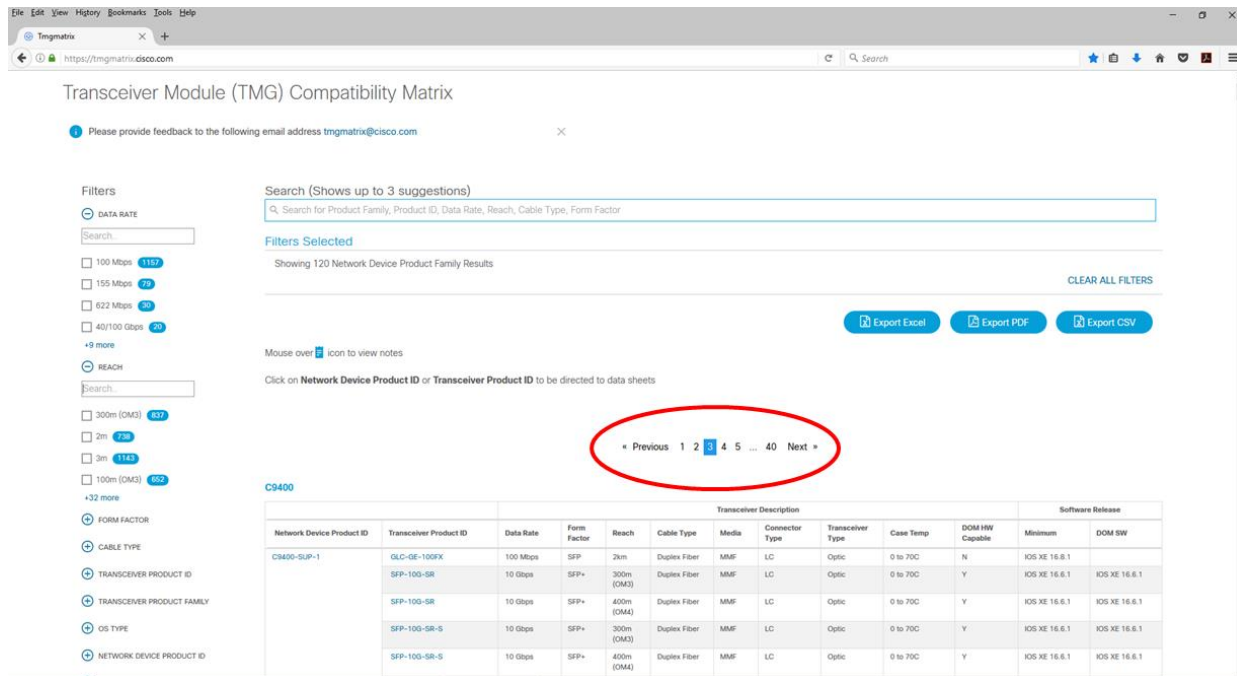


- ...only items with "2" in it will be shown
- You can then check the box(es) of your choice



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

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)

Search for Product Family, Product ID, Data Rate, Reach, Cable Type, Form Factor

Filters Selected

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

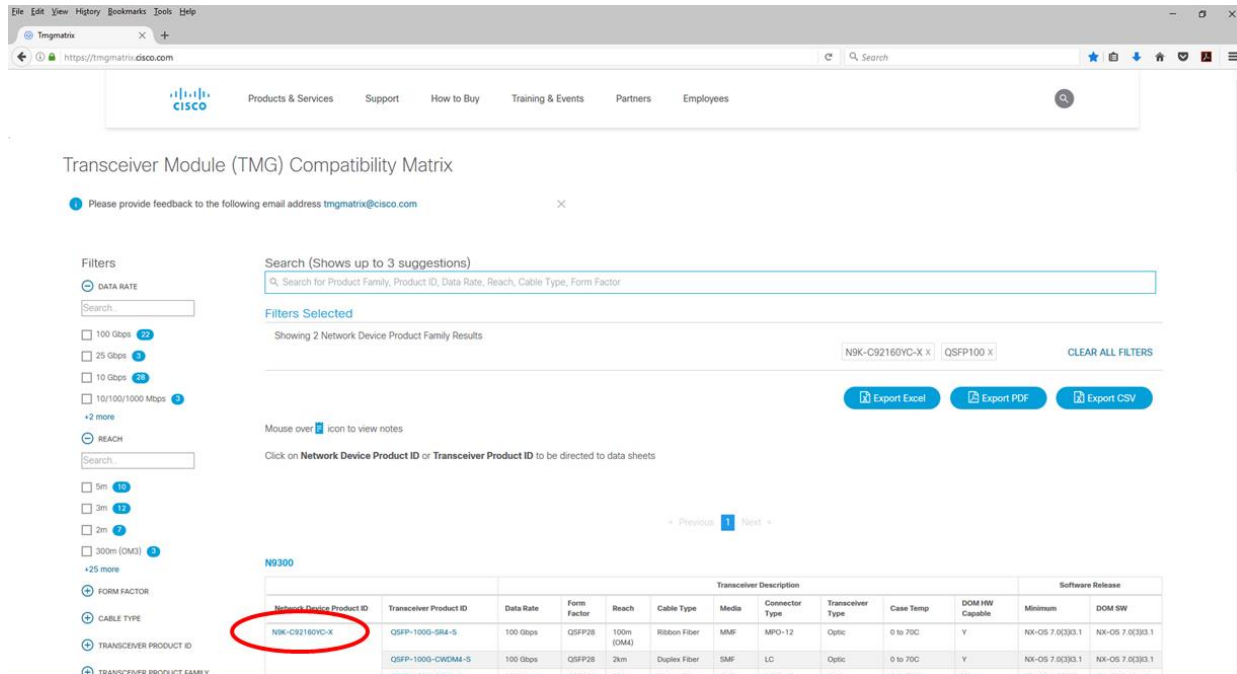
Viewers of This Document Also Viewed

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 blue "Watch video" button is positioned below the image. At the bottom of the main content area, there is a navigation bar with links for "Products", "Features", "Services", "Resources", "Support", and "For Partners", along with a "Partner Help" dropdown menu. Below this navigation bar is a section titled "Get industry-leading performance with Cloud Scale". This section contains two columns of information, each with a circular icon and a heading: "Performance and scale" (with a gear icon) and "Deep visibility and security" (with a shield icon). The "Performance and scale" column includes the text: "Get scale and investment protection with 1/10/25 /50/100/400G multi-speed ports." The "Deep visibility and security" column includes the text: "Industry-leading security and visibility with streaming telemetry, advance analytics, and line-rate encryption (MACsec)." The overall layout is clean and professional, typical of a corporate product page.