# HP Virtual Connect Interoperability Matrix

Version 2.0



#### Disclaimer

- The purpose of this matrix is to help field people to avoid mistakes while connecting VC Ethernet Modules to external LAN switches.
- This document can change as soon as I get some new details, so come and check it form time to time!
- All the information were collected either via the web (ProCurve.com, Cisco.com, Finsiar.com...), internal documents (.pdf, .doc...), and last but not least thanks to EMEA CC and Steve McLean for their tests contribution!



# HP Virtual Connect FlexFabric



#### VC FlexFabric 10Gb/24-Port Module

#### MidPlane - 16 Individually Configurable Downlink Ports



- 10 Gb Ethernet, Flex-10, Flex-10/FCoE, Flex-10/iSCSI
- 2 x 10Gb Cross-links between adjacent FlexFabric modules
- Mgmt Interfaces to Onboard Administrator (Enet, RS232, and I<sup>2</sup>C)



#### Four Flexible Uplink Ports (X1-X4)

- Individually configurable as FC or Ethernet
- Ethernet 10Gb (only), Fibre Channel: 2/4/8 Gb
- FC uplinks N\_Ports, just like legacy VC-FC module uplinks
- Stacking supported for Ethernet Only (FCoE future upgrade)

#### Four Ethernet Uplink Ports (X5-X8)

- Ethernet only (1/10 GbE)
- SFP+ SR/LR/LRM/Copper DAC
- Stacking supported for Ethernet Only (FCoE future upgrade)



2x Crosslinks (midplane) or 2x Enet SFP+ ports (X7-X8)

### FlexFabric Shared Port Operation: X7 and X8



• Port X7 (SFP+) and port X8 (SFP+) are each shared with two internal 10Gb cross-link.

Either the port is active or the internal cross-link is active, but not both.

Port X7 is shared with internal cross-link 1, and Port X8 is shared with internal cross-link 2.

- If there is a module installed in the SFP+ port, the SFP+ port is the active port.
- If there is no module installed in the SFP+ port, and the port **has not been configured** as an uplink in a VC Ethernet network, then the internal cross-link is the active port.
- If there is no module installed in the SFP+ port, and the port **has been configured** as an uplink in a VC Ethernet network, then the SFP+ port is the active port.



## VC FlexFabric: Ethernet Options

| FlexFabric<br>Interconnect<br>Option                            | Connector<br>Image | Connector<br>Type | Cable Needed                             | Distance<br>Covered |
|---|--------------------|-------------------|--|---------------------|
| RJ-45 SFP<br>453154-B21<br>Available only for<br>port X5 to X8  |                    | RJ-45             | CAT5/6 Copper Cable with RJ-45 connector | 100mt               |
| SX 1Gb SFP<br>453151-B21<br>Available only for<br>port X5 to X8 | and a second       | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 550mt (50/100μm)    |
| 10Gb SR SFP+<br>455883-B21                                      |                    | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 300mt (with OM3)    |
| 10Gb LR SFP+<br>455886-B21                                      |                    | LC                | Single-Mode FC Cable<br>OM2/OM3          | 16/25Km             |
| 10Gb LRM SFP+<br>455889-B21                                     |                    | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 260mt (with OM3)    |

## VC FlexFabric: Fiber Options

Note: all these SFP are available only for ports X1  $\rightarrow$  X4 1Gbps FC is not supported on uplinks X1  $\rightarrow$ X4

| FlexFabric<br>Interconnect Option                | Connector<br>Image | Connector<br>Type |
|--|--------------------|-------------------|
| 4Gb Short Wave FC SFP<br>A7446B                  |                    | LC                |
| 4Gb Long Wave<br>B-series 30km FC SFP<br>AN211 A |                    | LC                |
| 4 Gb Short Wave B-series FC SFP<br>AJ715A        |                    | LC                |
| 4 Gb Short Wave B-series FC SFP<br>AJ715A        |                    | LC                |
| 8Gb B-series Short Wave FC SFP+<br>AJ716A        |                    | LC                |
| 8Gb B-series Long Wave FC SFP+<br>AJ717A         |                    | LC                |

# Integrating Virtual Connect FlexFabric with HP ProCurve



## VC FlexFabric: ProCurve Connection

| FlexFabric<br>Interconnect<br>Option                            | Connector<br>Image   | What ProCurve connector do I need? | What Cable<br>do I need?                       | Comment  |
|---|--|------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21<br>Available only for<br>port X5 to X8  |  | RJ-45                              | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21<br>Available only for<br>port X5 to X8 | The state of the s | SFP LC/SC                          | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb SR SFP+<br>455883-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb SR         | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb LR SFP+<br>455886-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb LR         | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb LRM SFP+<br>455889-B21                                     |  | SFP/SFP+/XFP/X2<br>10Gb LRM        | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |

# Integrating Virtual Connect FlexFabric with Cisco



## VC FlexFabric: Cisco Connection

| FlexFabric<br>Interconnect<br>Option                            | Connector<br>Image   | What Cisco<br>connector do I<br>need? | What Cable<br>do I need?                       | Comment  |
|---|--|---------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21<br>Available only for<br>port X5 to X8  |  | RJ-45                                 | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21<br>Available only for<br>port X5 to X8 | Contract of the same of the sa | Cisco SFP SC/LC<br>Connector          | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb SR SFP+<br>455883-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb SR            | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb LR SFP+<br>455886-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb LR            | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb LRM SFP+<br>455889-B21                                     |  | SFP/SFP+/XFP/X2<br>10Gb LRM           | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |

# Integrating Virtual Connect Flex-10 with BNT/Nortel



## VC FlexFabric: BNT/Nortel Connection

| FlexFabric<br>Interconnect<br>Option                            | Connector<br>Image   | What BNT connector do I need? | What Cable do I need?                          | Comment  |
|---|--|-------------------------------|--|--|
| RJ-45 SFP<br>453154-B21<br>Available only for<br>port X5 to X8  |  | RJ-45                         | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21<br>Available only for<br>port X5 to X8 | The state of the s | SFP with SC/LC<br>Connector   | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb SR SFP+<br>455883-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb SR    | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb LR SFP+<br>455886-B21                                      |  | SFP/SFP+/XFP/X2<br>10Gb LR    | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb LRM SFP+<br>455889-B21                                     |  | SFP/SFP+/XFP/X2<br>10Gb LRM   | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |

## HP Virtual Connect Flex-10



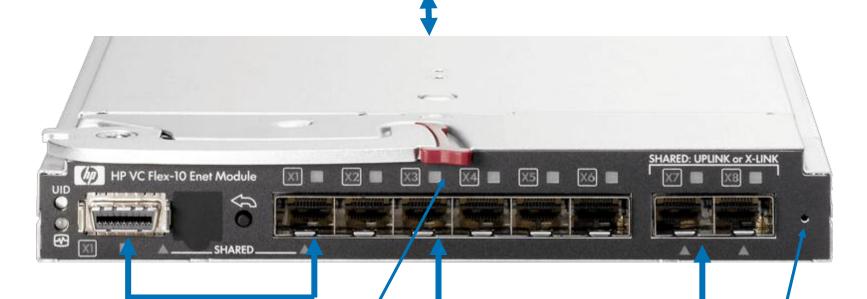
#### HP Virtual Connect Flex-10 10Gb Ethernet Module

MidPlane:

16x 10GBASE-KR Ethernet – Connects to one (1Gb or 10Gb) NIC in each HH blade bay

2x 10Gb Ethernet – Cross-link between adjacent VC-Enet modules

Mgmt Interfaces to Onboard Administrator (Enet & I2C)



1x 10GBASE-CX4 Ethernet or 1x SFP+ module (X1)

5x SFP+ modules (X2-6) (1GbE or 10GbE)

2x Crosslinks (midplane) or 2x SFP+ module (X7-8)

Port Number & Status Indicators

Indicates whether a data center link (green), stacking link (amber), or highlighted port (blue).

Recessed module reset button

### Flex-10 Shared Port Operation: CX4 and X1



Port X1 (10BASE-CX4) is shared with Port X1 (SFP+)

You can have either the CX-4 port active or the SFP+ port active and the triangle LED underneath each port indicates which port is active.

The SFP+ port always has precedence over the CX4 port:

- If there is a module installed in the SFP+ port, the SFP+ port is the active port.
- If there is no module installed in the SFP+ port, the CX4 port is the active port.



### Flex-10 Shared Port Operation: X7 and X8



• Port X7 (SFP+) and port X8 (SFP+) are each shared with two internal 10Gb cross-link.

Either the port is active or the internal cross-link is active, but not both.

Port X7 is shared with internal cross-link 1, and Port X8 is shared with internal cross-link 2.

- If there is a module installed in the SFP+ port, the SFP+ port is the active port.
- If there is no module installed in the SFP+ port, and the port **has not been configured** as an uplink in a VC Ethernet network, then the internal cross-link is the active port.
- If there is no module installed in the SFP+ port, and the port **has been configured** as an uplink in a VC Ethernet network, then the SFP+ port is the active port.



# VC Flex-10: Connectivity Options

| Flex-10<br>Interconnect<br>Option | Connector<br>Image   | Connector<br>Type | Cable Needed                             | Distance<br>Covered |
|-----------------------------------|--|-------------------|--|---------------------|
| RJ-45 SFP<br>453154-B21           | 13.7   | RJ-45             | CAT5/6 Copper Cable with RJ-45 connector | 100mt               |
| SX 1Gb SFP<br>453151-B21          | The state of the s | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 550mt (50/100μm)    |
| 10Gb SR SFP+<br>455883-B21        |  | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 300mt (with OM3)    |
| 10Gb LR SFP+<br>455886-B21        |  | LC                | Single-Mode FC Cable<br>OM2/OM3          | 16/25Km             |
| 10Gb LRM SFP+<br>455889-B21       |  | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 260mt (with OM3)    |

# Integrating Virtual Connect Flex-10 with HP ProCurve



### VC Flex-10: ProCurve Connection

| I have a<br>Flex-10 with<br>this Kit: | Connector<br>Image   | What ProCurve connector do I need? | What Cable<br>do I need?                       | Comment  |
|---------------------------------------|--|------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21               |  | RJ-45                              | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21              | The state of the s | SFP LC/SC                          | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb SR SFP+<br>455883-B21            |  | SFP/SFP+/XFP/X2<br>10Gb SR         | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb LR SFP+<br>455886-B21            |  | SFP/SFP+/XFP/X2<br>10Gb LR         | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |
| 10Gb LRM SFP+<br>455889-B21           |  | SFP/SFP+/XFP/X2<br>10Gb LRM        | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve<br>transceiver  |

# Integrating Virtual Connect Flex-10 with Cisco



### VC Flex-10: Cisco Connection

| I have a<br>Flex-10 with<br>this Kit: | Connector<br>Image   | What Cisco<br>connector do I<br>need? | What Cable do I need?                          | Comment  |
|---------------------------------------|--|---------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21               |  | RJ-45                                 | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21              | The state of the s | Cisco SFP SC/LC<br>Connector          | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb SR SFP+<br>455883-B21            |  | SFP/SFP+/XFP/X2<br>10Gb SR            | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb LR SFP+<br>455886-B21            |  | SFP/SFP+/XFP/X2<br>10Gb LR            | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb LRM SFP+<br>455889-B21           |  | SFP/SFP+/XFP/X2<br>10Gb LRM           | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |

# Integrating Virtual Connect Flex-10 with BNT/Nortel



## VC Flex-10: BNT/Nortel Connection

| I have a<br>Flex-10 with<br>this Kit: | Connector<br>Image | What BNT connector do I need? | What Cable<br>do I need?                       | Comment  |
|---------------------------------------|--------------------|-------------------------------|--|--|
| RJ-45 SFP<br>453154-B21               | 13.3               | RJ-45                         | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21              | The same           | SFP with SC/LC<br>Connector   | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb SR SFP+<br>455883-B21            |                    | SFP/SFP+/XFP/X2<br>10Gb SR    | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb LR SFP+<br>455886-B21            |                    | SFP/SFP+/XFP/X2<br>10Gb LR    | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb LRM SFP+<br>455889-B21           |                    | SFP/SFP+/XFP/X2<br>10Gb LRM   | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |

# HP Virtual Connect 1/10-F



#### HP Virtual Connect Ethernet Module

HP 1/10Gb-F VC-Enet Module

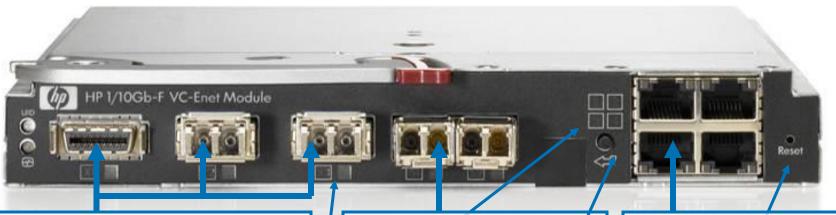
**MidPlane** 

16x 1Gb Ethernet-Connects to one NIC in each HH blade server bay



1x 10Gb-Cross-link between adjacent VC-Enet modules

Mgmt Interfaces to Onboard Administrator



1x10Gb Ethernet (CX4) Port X1 2x10Gb Ethernet (XFP) Ports X2, X3 2x 1Gb Ethernet (SFP modules SX/RJ45)

Ports S1 and S2

4x 1Gb Ethernet (RJ45)
Ports 1, 2, 3, 4

Port Number & Status Indicators
Indicates whether a data center link (green),
stacking link (amber), or highlighted port (blue).

'Next' button (unused in initial release firmware)

Recessed module reset button

# VC 1/10-F: Connectivity Options

| VC 1/10-F<br>Interconnect<br>Option                               | Connector<br>Image   | Connector<br>Type | Cable Needed                             | Distance<br>Covered |
|---|----------------------|-------------------|--|---------------------|
| RJ-45 SFP<br>453154-B21<br>Available only for<br>port S1 and S2   |                      | RJ-45             | CAT5/6 Copper Cable with RJ-45 connector | 100mt               |
| SX 1Gb SFP<br>453151-B21<br>Available only for<br>port S1 and S2  | Contract of the same | LC                | LC Multi-Mode FC Cable OM2/OM3           | 550mt (50/100μm)    |
| 10Gb SR XFP<br>443756-B21<br>Available only for<br>port X2 and X3 |                      | LC                | Multi-Mode FC Cable<br>OM2/OM3           | 300mt (with OM3)    |
| 10Gb LR XFP<br>443757-B21<br>Available only for<br>port X2 and X3 |                      | LC                | Single-Mode FC Cable<br>OM2/OM3          | 16/25Km             |



# Integrating Virtual Connect 1/10-F with HP ProCurve



## VC 1/10-F: ProCurve Connection

| I have a VC<br>1/10F with<br>this Kit: | Connector<br>Image | What ProCurve connector do I need? | What Cable<br>do I need?                       | Comment  |
|--|--------------------|------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21                |                    | RJ-45                              | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21               | and .              | ProCurve SFP LC/SC                 | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve SFP             |
| 10Gb SR XFP<br>443756-B21              |                    | SFP/SFP+/XFP/X2<br>10Gb SR         | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a<br>ProCurve module          |
| 10Gb LR XFP<br>443757-B21              |                    | SFP/SFP+/XFP/X2<br>10Gb LR         | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a<br>ProCurve module          |



# Integrating Virtual Connect 1/10-F with Cisco



# VC 1/10-F: Cisco Connection

| I have a VC<br>1/10-F with<br>this Kit: | Connector<br>Image   | What Cisco<br>connector do I<br>need? | What Cable<br>do I need?                       | Comment  |
|---|--|---------------------------------------|--|--|
| RJ-45 SFP<br>453154-B21                 |  | RJ-45                                 | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21                | The state of the s | SFP LC/SC                             | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb SR XFP<br>443756-B21               |  | SFP/SFP+/XFP/X2<br>10Gb SR            | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a Cisco<br>transceiver        |
| 10Gb LR XFP<br>443757-B21               |  | SFP/SFP+/XFP/X2<br>10Gb LR            | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a Cisco<br>transceiver        |



# Integrating Virtual Connect 1/10-F with BNT



# VC 1/10-F: BNT Connection

| I have a VC<br>1/10-F with<br>this Kit: | Connector<br>Image   | What BNT connector do I need? | What Cable<br>do I need?                       | Comment  |
|---|--|-------------------------------|--|--|
| RJ-45 SFP<br>453154-B21                 |  | RJ-45                         | CAT5/6 Copper<br>Cable with<br>RJ-45 connector | It supports only<br>1000BaseT, doesn't<br>work with 10/100 |
| SX 1Gb SFP<br>453151-B21                | The state of the s | SFP LC/SC                     | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb SR XFP<br>443756-B21               |  | SFP/SFP+/XFP/X2<br>10Gb SR    | Multi-Mode FC Cable<br>OM2/OM3                 | The Switch Port<br>must have a BNT<br>transceiver          |
| 10Gb LR XFP<br>443757-B21               |  | SFP/SFP+/XFP/X2<br>10Gb LR    | Single-Mode FC Cable<br>OM2/OM3                | The Switch Port<br>must have a BNT<br>transceiver          |



# Direct Attach Cables



## Direct Attach Cable – Connectivity Options

- Direct Attach Cable (DAC)
   is a cable that has a built in SFP+ transceiver on both
   ends. It's very cheap
   compared to an
   SFP(+)/Cable/SFP(+) chain
- There are many DAC
   Cables provided by various vendor and with FW 3.x allows you can use a wider range of DAC





#### VC Firmware 3.x and later

- Since firmware 3.x, the limitation to use only HP branded cables has disappeared. Now you can use 3<sup>rd</sup> party DAC Cables, but they will be logged as "unsupported". Currently allowed DAC Cables are from Cisco and Brocade, other non allowed cables will not link.
- Requirements for 3<sup>rd</sup> party DAC Cables are Length: from 1 to 7 meters (**no 0.5 meters**)

Connector: Copper Pigtail

Speed: >= 10Gb

Transceiver Code: active or passive



#### VC Firmware 3.x: Direct Attach Cable

Valid for VC fw. 3.x or above

| DAC Vendor      | Comment/Example  |
|-----------------|--|
| HP ISS DAC      | HP 1m SFP+ 10GbE Copper Cable 487652-B21 HP 3m SFP+ 10GbE Copper Cable 487655-B21 HP 5m SFP+ 10GbE Copper Cable 537963-B21 HP 7m SFP+ 10GbE Copper Cable 487658-B21  |
| HP ProCurve DAC | HP ProCurve 10-GbE SFP+ 1m Direct Attach Cable J9281B HP ProCurve 10-GbE SFP+ 3m Direct Attach Cable J9283B HP ProCurve 10-GbE SFP+ 7m Direct Attach Cable J9285B HP ProCurve XFP to SFP+ 1m Direct Attach Copper Cable J9300A HP ProCurve XFP to SFP+ 3m Direct Attach Copper Cable J9301A HP ProCurve XFP to SFP+ 5m Direct Attach Copper Cable J9302A |
| Brocade         | Brocade 1m B-series Active Copper SFP+ Cable AP818A<br>Brocade 3m B-series Active Copper SFP+ Cable AP819A<br>Brocade 5m B-series Active Copper SFP+ Cable AP820A  |
| Cisco           | HP C-Series 10GB Copper Cable, 3m AP784A HP C-Series 10GB Copper Cable, 5m AP785A Cisco 3-m 10G SFP+ Copper Twinax Cable SFP-H10GB-CU3M Cisco 5-m 10G SFP+ Copper Twinax Cable SFP-H10GB-CU5M  |



### VC Flex-10: Direct Attach Cable

Valid for VC fw. 2.30 to 2.34

| DAC Vendor         | Does it work with<br>Virtual Connect? | Does it work with<br>Manufacturer? | Comment/Example  |  |
|--------------------|---------------------------------------|------------------------------------|--|--|
| HP ISS DAC         | Yes                                   | Yes                                | HP 1m SFP+ 10GbE Copper Cable 487652-B21<br>HP 3m SFP+ 10GbE Copper Cable 487655-B21<br>HP 7m SFP+ 10GbE Copper Cable 487658-B21 |  |
| HP ProCurve DAC A* | Yes                                   | Yes                                | HP ProCurve 10-GbE SFP+ 1m DAC J9281A<br>HP ProCurve 10-GbE SFP+ 3m DAC J9283A<br>HP ProCurve 10-GbE SFP+ 7m DAC J9285A          |  |
| HP ProCurve DAC B  | Yes                                   | Yes                                | HP ProCurve 10-GbE SFP+ 1m DAC J9281B<br>HP ProCurve 10-GbE SFP+ 3m DAC J9283B<br>HP ProCurve 10-GbE SFP+ 7m DAC J9285B          |  |
| BNT                | No                                    | Yes                                |  |  |
| Brocade Cables     | No                                    | Yes                                | Flex-10 checks manufacturer, 3 <sup>rd</sup> party DAC are not allowed   |  |
| Cisco              | No                                    | Yes                                |  |  |



<sup>\*</sup> HP ProCurve DAC A is in shortage and will be obsolete soon

#### VC Flex-10: Direct Attach Cable

Valid for VC fw. 2.12 or below

| DAC Vendor         | Does it work with<br>Virtual Connect? | Does it work with<br>Manufacturer? | Comment/Example  |  |
|--------------------|---------------------------------------|------------------------------------|--|--|
| HP ISS DAC         | Yes                                   | Yes                                | HP 1m SFP+ 10GbE Copper Cable 487652-B21<br>HP 3m SFP+ 10GbE Copper Cable 487655-B21<br>HP 7m SFP+ 10GbE Copper Cable 487658-B21 |  |
| HP ProCurve DAC A* | Yes                                   | Yes                                | HP ProCurve 10-GbE SFP+ 1m DAC J9281A<br>HP ProCurve 10-GbE SFP+ 3m DAC J9283A<br>HP ProCurve 10-GbE SFP+ 7m DAC J9285A          |  |
| HP ProCurve DAC B  | No                                    | Yes                                |  |  |
| BNT                | No                                    | Yes                                | Flex-10 checks manufacturer, 3 <sup>rd</sup> party DAC are not allowed   |  |
| Brocade Cables     | No                                    | Yes                                |  |  |
| Cisco              | No                                    | Yes                                |  |  |



 $<sup>^{*}</sup>$  HP ProCurve DAC A is in shortage and will be obsolete soon

### HP Virtual Connect Fibre channel module

4Gb FC 8Gb FC 20 Ports 8Gb FC 24 Ports



## VC-FC 8Gb 20ports

#### 572018-B21



#### **8Gb Optical Transceivers (SFP+)**

•Short Wave 8Gb - 75m

**AJ718A** 

#### **4Gb Optical Transceivers (SFP)**

•Short Wave 4Gb - 150m

A7446B

•Long Wave - 10 km

AE493A







## VC-FC 8Gb 24ports

#### 466482-B21



#### **8Gb Optical Transceivers (SFPs)**

Short Wave

HP 8Gb SW B-series FC SFP+ AJ716A

Long Wave

HP 8Gb Long Wave B-series 10km FC SFP+ 1 Pack AJ717A

#### **4Gb Optical Transceivers (SFPs)**

Short Wave

HP 4Gb SW B-series FC SFP AJ715A

Long Wave

HP 4Gb LW B-series 35km FC SFP 1 Pack AN211A











#### VC-FC 4Gb

#### 409513-B22



#### **4Gb Optical Transceivers (SFPs)**

Short Wave 4Gb - 150m Long Wave - 10 km

A7446B AE493A





