

# SFP Guide

## Small Form-Factor Pluggable Module Selection Guide

### Gigabit SFPs

#### C050055L003A

PTP 550 SFP Single-Mode Optical 1000BaseLX SFP Interface per ODU



<b>Speed</b>	1 G
<b>Mode</b>	Single
<b>Wavelength</b>	1310nm
<b>Kit Contents</b>	SFP Module, Cable Gland (P16 long)
<b>Spare Glands</b>	N000000L140A
<b>Product Support</b>	PTP 550/550E
<b>Operating Temperature</b>	-40°C to +85°C

#### N000082L059A

PTP 820 SFP Optical 1000Base-LX, EXT TEMP, 1310nm, Single-Mode



<b>Speed</b>	1 G
<b>Mode</b>	Single
<b>Wavelength</b>	1310nm
<b>Kit Contents</b>	SFP Module
<b>Spare Glands</b>	N000082L014A
<b>Product Support</b>	PTP 820/850
<b>Operating Temperature</b>	-40°C to +85°C

#### N000082L213A

PTP 820 SFP, Single Fiber, 1490nm TX/1310nm RX, SM, EXT TEMP



<b>Speed</b>	1 G
<b>Mode</b>	Single
<b>Wavelength</b>	1490nm TX & 1310 RX
<b>Kit Contents</b>	SFP Module
<b>Spare Glands</b>	N000082L014A
<b>Product Support</b>	PTP 820/850
<b>Operating Temperature</b>	-10°C to +70°C

# SFP Guide

## Gigabit SFPs, Continued

### N000082L214A

PTP 820 SFP, Single Fiber, 1310nm TX/1490nm RX, SM, EXT TEMP



Speed	1 G
Mode	Single
Wavelength	1310nm TX & 1490 RX
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-10°C to +70°C

### N800082L010A

PTP 820 CSFP, 1310nm TX/1490nm RX, SM, EXT TEMP



Speed	1 G
Mode	Single
Wavelength	1310nm TX & 1490 RX
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-40°C to +85°C

### N800082L011A

PTP 820 CSFP, 1490nm TX/1310nm RX, SM, EXT TEMP



Speed	1 G
Mode	Single
Wavelength	1490nm TX & 1310 RX
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-40°C to +85°C

# SFP Guide

## Gigabit SFPs, Continued

### SFP-1G-LX\*

1G SFP SMF LX Transceiver, 1310nm, -40C to 85C



Speed	1 G
Mode	Single
Wavelength	1310nm
Kit Contents	SFP Module
Spare Glands	cnWave™: C000000L124A PMP 450m: N000000L140A
Product Support	cnWave 60 GHz (V3000, V5000), cnMatrix™, PMP 450m 5 GHz**, PMP 450v, cnRanger™
Operating Temperature	-40°C to +85°C

\*Replaces C000065L008A

\*\*Not recommended for PMP 450m 3 GHz

### C050055L002A

PTP 550 SFP Multi-mode Optical 1000BaseSX SFP Interface per ODU



Speed	1 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module, Cable Gland (P16 Long)
Spare Glands	N000000L140A
Product Support	PTP 550/550E
Operating Temperature	0°C to +70°C

### N000082L072A

PTP 820 SFP Optical 1000Base-SX,,EXT TEMP, 850nm, Multi-Mode



Speed	1 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-40°C to +85°C

# SFP Guide

## Gigabit SFPs, Continued

### SFP-1G-SX

1G SFP MMF SX Transceiver, 850nm, -40C to 85C



Speed	1 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module
Spare Glands	cnWave: C000000L124A PMP 450m: N000000L140A
Product Support	cnWave 60 GHz (V3000, V5000), cnMatrix, PMP 450m 5GHz, PMP 450m 3GHz, PMP 450v, cnRanger
Operating Temperature	-40°C to +85°C

\*Replaces C000065L009A

### C000065L010A

Gigabit Ethernet 1000BaseT SFP Interface per ODU



Speed	1 G
Mode	Gigabit-Ethernet
Wavelength	N/A
Kit Contents	SFP Module, Cable Gland (P16 Long), License Key Document
Spare Glands	N000000L140A
Product Support	PTP 650/670, PTP 45700
Operating Temperature	-40°C to +85°C

### C050055L001A

PTP 550 SFP Interface for Gigabit Ethernet 1000BaseT per ODU



Speed	1 G
Mode	Gigabit-Ethernet
Wavelength	N/A
Kit Contents	SFP Module, Cable Gland (P16 Long)
Spare Glands	N000000L140A
Product Support	PTP 550/550E
Operating Temperature	-40°C to +85°C

## SFP Guide

### Gigabit SFPs, Continued

#### N000082L117A

PTP 820 SFP Electric Int 1000Base-T, EXT TEMP



<b>Speed</b>	1 G
<b>Mode</b>	Gigabit-Ethernet
<b>Wavelength</b>	N/A
<b>Kit Contents</b>	SFP Module
<b>Spare Glands</b>	N000082L014A
<b>Product Support</b>	PTP 820/850
<b>Operating Temperature</b>	-40°C to +85°C

#### SFP-1G-COPPER

1000Base-T (RJ45) SFP Transceiver, -40C to 85C



<b>Speed</b>	1 G
<b>Mode</b>	Gigabit-Ethernet
<b>Wavelength</b>	N/A
<b>Kit Contents</b>	SFP Module
<b>Spare Glands</b>	cnWave: C000000L124A
<b>Product Support</b>	cnWave 60 GHz (V3000, V5000), cnMatrix, cnRanger
<b>Operating Temperature</b>	-40°C to +85°C

# SFP Guide

## Multi-Gigabit SFPs

### N800082L013A

PTP 820/850 SFP+, 1310nm, SM, 10Gbit, Industrial Grade



Speed	10 G
Mode	Single
Wavelength	1310nm
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-40°C to +85°C

### SFP-10G-LR

10G SFP+ SMF LR Transceiver, 1310nm, -40C to 85C



Speed	10 G
Mode	Single
Wavelength	1310nm
Kit Contents	SFP Module
Spare Glands	cnWave: C000000L124A
Product Support	cnWave 60 GHz (V3000, V5000), cnMatrix, PMP 450v, cnRanger
Operating Temperature	-40°C to +85°C

### N800082L012A

PTP 820 SFP+, 850nm, MM, 10Gbit, Industrial Grade



Speed	10 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 820/850
Operating Temperature	-40°C to +85°C

# SFP Guide

## Multi-Gigabit SFPs, Continued

### SFP-10G-SR

10G SFP+ MMF SR Transceiver, 850nm, -40C to 85C



Speed	10 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module
Spare Glands	cnWave: C000000L124A
Product Support	cnWave 60 GHz (V3000, V5000), cnMatrix, PMP 450v, cnRanger
Operating Temperature	-40°C to +85°C

### SFP-10G-COPPER

10G Base-T (RJ45) SFP Transceiver, 0C to 70C



Speed	10 G
Mode	Gigabit-Ethernet
Wavelength	N/A
Kit Contents	SFP Module
Spare Glands	cnWave: C000000L124A
Product Support	cnWave 60 GHz (V3000, V5000), cnMatrix, cnRanger
Operating Temperature	0°C to +70°C

### N000082L203A

PTP 850 QSFP Transceiver



Speed	40 G
Mode	Multi
Wavelength	850nm
Kit Contents	SFP Module
Spare Glands	N000082L014A
Product Support	PTP 850
Operating Temperature	-40°C to +85°C

# SFP Guide

## SFP Product Compatibility

Product	1G 850nm	1G 1310nm	1G Copper	1G SFP 1490nmTx/ 1310nm Rx	1G SFP 1310nmTx/ 1490nm Rx	1G CSFP 1490nmTx/ 1310nm Rx	1G SFP C1310nmTx/	10G 850nm	10G 1310nm	10G Copper	40G
<b>Point-to-Point (PTP)</b>											
<b>PTP 45700</b>	C000065L009A	C000065L008A	C000065L010A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 550</b>	C050055L002A	C050055L003A	C050055L001A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 550E</b>	C050055L002A	C050055L003A	C050055L001A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 670</b>	C000065L009A	C000065L008A	C000065L010A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 78700</b>	N000070L016A	N000070L015A	N000070L017A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 820C</b>	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 820C HP</b>	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 820E</b>	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N/A
<b>PTP 820F</b>	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 820G</b>	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 820S</b>	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PTP 850C</b>	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N/A
<b>PTP 850E</b>	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N000082L203A
<b>PTP 850S</b>	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N000082L203A
<b>cnWave 60 GHz</b>											
<b>V3000</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	<b>N/A</b>
<b>V5000</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
<b>Point-to-Multipoint (PMP)</b>											
<b>PMP 450m 3 GHz</b>	SFP-1G-SX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PMP 450m 5 GHz</b>	SFP-1G-SX	SFP-1G-LX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
<b>PMP 450v</b>	SFP-1G-SX	SFP-1G-LX	N/A	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	N/A	<b>N/A</b>
<b>cnMatrix</b>											
<b>EX1010</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
<b>EX1010-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>EX1028</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
<b>EX1028-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>EX2010</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
<b>EX2010-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>EX2016M-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	<b>N/A</b>
<b>EX2028</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	<b>N/A</b>
<b>EX2028-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
<b>EX2052</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
<b>EX2052-P</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	<b>N/A</b>
<b>EX2052R-P 800 BBU</b>	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A

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