



**Cisco Network Convergence System Routers  
NCS 4201-02 Series  
Optics Matrix**

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**Cisco Systems, Inc.**

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Text Part Number: NA

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Legend:  
 NA: Not Applicable  
 NS: Not Supported

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
<b>Fast Ethernet SFPS</b>					
GLC-FE-100LX	100BASE-LX SFP for FE port	3.13	3.14	NA	3.13
GLC-FE-100BX-D	100BASE-BX10-D SFP	3.13	3.14	NA	3.13
GLC-FE-100BX-U	100BASE-BX10-U SFP	3.13	3.14	NA	3.13
GLC-FE-100EX	100BASE-EX SFP (40km)	3.13	3.14	NA	3.13
GLC-FE-100ZX	100BASE-ZX SFP (80km)	3.13	3.14	NA	3.13
GLC-FE-100FX	100BASE-FX SFP for FE port	3.13	3.14	NA	3.13
GLC-FE-100LX-RGD=	100BASE-LX SM Rugged SFP	3.13	3.14	NA	3.13
GLC-FE-100FX-RGD=	100BASE-FX MM Rugged SFP	3.13	3.14	NA	3.13

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
ONS-SE-100-BX10D=	SFP-10/100 BX-D, EXT	16.5.1	16.5.1	NA	16.5.1
ONS-SE-100-BX10U=	SFP-10/100 BX-U, EXT	16.5.1	16.5.1	NA	16.5.1
ONS-SE-100-LX10=		NS	NS	NA	NS
ONS-SE-GE-BXD=		NS	NS	NA	NS
ONS-SE-GE-BXU=		NS	NS	NA	NS

#### GigabitEthernet SFPs

GLC-SX-MM-RGD	1000Mbps Multi-Mode Rugged SFP	3.13	3.14	NA	3.13
GLC-LX-SM-RGD	1000Mbps Single Mode Rugged SFP	3.13	3.14	NA	3.13
GLC-ZX-SM-RGD	1000BASE-ZX Single Mode RuggedSFP	3.13	3.14	NA	3.13
GLC-BX-D=	1000BASE-BX SFP, 1490nm	3.13	3.14	NA	3.13
GLC-BX-U=	1000BASE-BX SFP, 1310nm	3.13	3.14	NA	3.13
GLC-EX-SMD	GE SFP, LC Connector, EX transceiver	3.13	3.14	NA	3.13

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	3.13	3.14	NA	3.13
GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	3.13	3.14	NA	3.13
GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM	3.13	3.14	NA	3.13
GLC-LH-SM	GE SFP, LC connector LX/LH transceiver	NS	NS	NA	NS
GLC-SX-MM	GE SFP, LC connector SX transceiver	NS	NS	NA	NS
GLC-ZX-SM	1000BASE-ZX SFP	NS	NS	NA	NS
GLC-T=	1000BASE-T SFP	NS	NS	NA	NS
GLC-TE	1000BASE-T SFP	3.18SP.1	3.18SP.1	NA	3.18SP.1
SFP-GE-T	1000BASE-T SFP (NEBS 3 ESD)	3.13	3.14	NA	3.13
SFP-GE-L	1000BASE-LX/LH SFP (DOM)	3.13	3.14	NA	3.13

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
SFP-GE-S	1000BASE-SX SFP (DOM)	3.13	3.14	NA	3.13
SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)	3.13	3.14	NA	3.13
SFP-LX-SM		NS	NS	NA	NS
SFP-SX-MM		NS	NS	NA	NS
GLC-BX40-U-I		3.14	3.14	NA	3.14
GLC-BX40-D-I		3.14	3.14	NA	3.14
GLC-BX40-DA-I		3.14	3.14	NA	3.14
GLC-BX80-U-I		3.14	3.14	NA	3.14
GLC-BX80-D-I		3.14	3.14	NA	3.14
GLC-GE-DR-LX		3.18	3.18	NA	3.18
ONS-SC-GE-LX=		3.18	3.18	NA	3.18
ONS-SE-ZE-EL=		3.17	3.17	NA	3.17
ONS-SC-GE-BXD	(V01)	3.18	3.18	NA	3.18

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
ONS-SC-GE-BXU	(V01)	3.18	3.18	NA	3.18
ONS-SI-GE-LX		3.17	3.17	NA	3.17
ONS-SI-GE-SX		17.8.1	17.8.1	NA	NS
ONS-SI-GE-EX		17.12.1	17.12.1	NA	NS
ONS-SI-GE-ZX		16.5.1	16.5.1	NA	16.5.1
ONS-SE-Z1=	OC-3 SR-1, OC-12 SR-1, OC-48 IR-1 or GE LX	3.18SP	3.18SP	NA	3.18SP
TN-GLC-BX-U20	Transition 1000Base-BX 1310nm TX/1490nm RX single fiber single mode (LC) with DMI [20 km]	16.12.1	16.12.1	NA	16.12.1
FTLF1318P3BTL	Finisar 1000BASE-LX and 1G Fibre Channel 10km	16.12.1	16.12.1	NA	16.12.1
TXN31115D100000	Intel SFP 1000BASE-SX 4GB Short Wavelength 850nm 500ft LC	16.12.1	16.12.1	NA	16.12.1

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
FTRJ1319P1/BTL-J2	Juniper Finisar Industrial Temperature 2 Gigabit Long-Wavelength Pluggable SFP Transceiver	16.12.1	16.12.1	NA	16.12.1
GLC-BX-D-I	1000BASE BX10-D	17.3.1	17.3.1	NA	17.3.1
GLC-BX-U-I	1000BASE BX10-U	17.3.1	17.3.1	NA	17.3.1
<b>1G Bi-di Optics (2x1G)</b>					
ONS-SC-2GE-BX-D				NA	
GLC-2BX-D-I				NA	
GLC-2BX-D				NA	
<b>100Mbps</b>					
ONS-SI-100-LX10=					
ONS-SE-100-BX10D=					
ONS-SE-100-BX10U=					
ONS-SI-100-FX=					
<b>GigabitEthernet Colored Plugables</b>					
CWDM-SFP-xxxx=	CWDM "xxxx" NM SFP Gigabit Ethernet and 1G/2G FC	3.13	3.14	NA	3.13



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		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
DWDM-SFP-xxxx=	DWDM SFP xxxx.xx nm SFP (100 GHz ITU grid)	3.13	3.14	NA	3.13
ONS-SE-2G-xxxx	(xxxx = CWDM lambda)	NS	NS	NA	NS
ONS-SC-2G-xx.y		NS	NS	NA	NS
<b>TenGigabitEthernet XFPs</b>					
XFP-10G-MM-SR=	10GBASE-SR XFP Module	NA	NA	NA	NA
XFP-10GER-OC192IR=	10GBASE-ER and OC192 IR XFP Module	NA	NA	NA	NA
XFP-10GLR-OC192SR=	Multirate XFP module for 10GBASE-LR and OC192 SR-1	NA	NA	NA	NA
XFP-10GZR-OC192LR=	10GBASE-ZR and OC192 LR2 XFP Module	NA	NA	NA	NA
XFP-10GER-OC192IR-RGD=	10GBASE-ER and OC192 IR XFP Rugged Module	NA	NA	NA	NA
XFP-10GLR-OC192SR-RGD=	Multirate XFP rugged module for 10GBASE-LR and OC192 SR-1	NA	NA	NA	NA
XFP-10GZR-OC192LR-RGD=	10GBASE-ZR and OC192 LR2 XFP Rugged Module	NA	NA	NA	NA

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
XFP10GER-192IR-L	Low Power multirate XFP supporting 10GBASE-ER and OC-192 IR	NA	NA	NA	NA
XFP10GLR-192SR-L	Low Power multirate XFP supporting 10GBASE-LR and OC-192 SR	NA	NA	NA	NA
<b>Colored TenGigabitEthernet Pluggables</b>					
DWDM-XFP-C	10G MultiRate C Band Tunable DWDM XFP	NA	NA	NA	NA
DWDM-XFP-xxxx	DWDM XFP xxxx.xx nm XFP (100 GHz ITU grid)	NA	NA	NA	NA
ONS-XC-10G-Epxx.x	10G MR, XFP, DWDM, Edge Performance xxxx.xx, 100 GHz, LC	NA	NA	NA	NA
ONS-XC-10G-xxxx=	OC192/10GE/OTU2, CWDM, xxxxmn, XFP C-Temp, 40km range	NA	NA	NA	NA
DWDM-SFP10G-xx.xx	DWDM SFP+	3.13	3.14	NA	3.13
CWDM-SFP10G-xxxx	8 wavelengths CWDM optics SFP+	3.14	3.14	NA	3.14

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DWDM-SFP10G-C	DWDM SFP+	3.18	3.18	NA	3.18
DWDM-SFP10G-C-S	DWDM SFP+	NS	NS	NA	NS
ONS-SC+-10G-C=	SFP+ -10G MR, Full C Band Tuneable DWDM SFP+, 50 Ghz, LC	16.6.1	16.6.1	NA	16.6.1
ONS-SC+-10GEPXX.X=	10G MR, SFP+, DWDM, Edge Performance xxxx.xx, 100 GHz, LC	3.18SP	3.18SP	NA	3.18SP
ONS-SC+-10G-xx.x=	(xx.x = DWDM lambda)	3.18	3.18	NA	3.18

**TenGigabitEthernet SFP+**

SFP-10G-SR		3.13	3.14	NA	3.13
SFP-10G-LR		3.13	3.14	NA	3.13
SFP-10G-LRM		3.14	3.14	NA	NA
SFP-H10GB-CU1M		3.14	3.14	NA	NA
SFP-H10GB-CU1.5M		NA	NA	NA	NA
SFP-H10GB-CU2M		NA	NA	NA	NA
SFP-H10GB-CU2.5M		NA	NA	NA	NA
SFP-H10GB-CU3M		3.14	3.14	NA	NA

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
SFP-H10GB-CU5M		3.14	3.14	NA	NA
SFP-H10GB-CU7M		3.14	3.14	NA	NA
SFP-10G-ER		3.13	3.14	NA	3.13
SFP-10G-ZR		3.13	3.14	NA	3.13
SFP-10G-SR-X	Extended temp version of SR SFP+	3.13	3.14	NA	3.13
SFP-10G-LR-X	Extended temp version of LR SFP+	3.13	3.14	NA	3.13
SFP-10G-BXD-I	10G BX 10Km SFP+	3.14	3.14	NA	3.14
SFP-10G-BXU-I	10G BX 10Km SFP+	3.14	3.14	NA	3.14
SFP-10G-BX40D-I	10G BX 40Km SFP+	3.14	3.14	NA	3.14
SFP-10G-BX40U-I	10G BX 40Km SFP+	3.14	3.14	NA	3.14
SFP-10G-SR-S		3.17	3.17	NA	3.17
SFP-10G-LR-S		3.17	3.17	NA	3.17
SFP-10G-ER-S		3.17	3.17	NA	3.17
SFP-10G-ZR-S		3.17	3.17	NA	3.17

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
ONS-SC+-10G-SR=		16.5.1	16.5.1	NA	16.5.1
ONS-SC+-10G-LR=		3.18SP	3.18SP	NA	3.18SP
ONS-SC+-10G-ER=		3.18SP	3.18SP	NA	3.18SP
ONS-SC+-10G-ZR=		16.5.1	16.5.1	NA	16.5.1
10GSFP+E-LR	Champion Long haul 10GBase-LR SFP+, 1310nm, 10km rated	16.12.1	16.12.1	NA	16.12.1
FTLX1672D3BCL	Finisar 10Gb/s, 40km Single Mode, Multi-Rate SFP+ Transceiver	16.12.1	16.12.1	NA	16.12.1
ONS-SI+-10G-SR	Accelink	17.1.1	17.1.1	NA	17.1.1
ONS-SI+-10G-LR	Accelink	17.1.1	17.1.1	NA	17.1.1
ONS-SI+-10G-ER	Finisar	17.1.1	17.1.1	NA	17.1.1
ONS-SI+-10G-ZR	Finisar	17.1.1	17.1.1	NA	17.1.1
ONS-SC+-10G-SR					
ONS-SC+-10G-LR					
ONS-SC+-10G-ZR					
ONS-SC+-10G-ER					
SFP-10G-ZR-S		17.7.1	17.7.1	NA	NA
SFP-10G-LR10-I		17.7.1	17.7.1	NA	NA
SFP-10G-ER-I		17.7.1	17.7.1		17.15.1

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		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
SFP-10G-ZR-I		17.15.1	17.15.1		

#### WAN SFPs

ONS-SI-155-SR-MM		NA	NA	16.7.1	NA
ONS-SI-155-I1		NA	NA	16.7.1	NA
ONS-SI-155-L1		NA	NA	16.7.1	NA
ONS-SI-155-L2		NA	NA	16.7.1	NA
ONS-SC-155-EL		NA	NA	16.7.1	NA
ONS-SI-622-SR-MM		NA	NA	16.7.1	NA
ONS-SI-622-I1		NA	NA	16.7.1	NA
ONS-SI-622-L1		NA	NA	16.7.1	NA
ONS-SI-622-L2		NA	NA	16.7.1	NA
ONS-SI-2G-S1	OC48 SR / STM16 I.1			16.7.1	
ONS-SI-2G-I1	OC48 IR1 / STM-S-16.1			16.7.1	
ONS-SI-2G-L1	OC48 LR1 / STM-L-16.1			16.7.1	
ONS-SI-2G-L2	OC48 LR2 / STM-L-16.2			16.7.1	
ONS-SC-155-TSOP	TSoP STM-1/OC3 Optics	3.17	3.17	NA	NA
ONS-SC-622-TSOP	TSoP STM-4/OC12 Optics	3.18	3.18	NA	3.18

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		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)
ONS-SI-OC-VCOP	VCoP STM-1/STM-4 (oc3/oc12) Optics	16.5.1	16.5.1	NA	NA
ONS-SI-PDH-VCOP	VCoP DS3 Optics	16.5.1	16.5.1	NA	NA
MIRICI-E3/T3	E3/T3 SFP	NA	NA	NA	NA
ONS-SI-DS1-TPOP=	T1 TPoP	16.12.1	16.12.1	NA	NA
SFP-T1F-SATOP-I	TPoP T1-FRAMED	17.6.1	17.6.1		
SFP-E1F-SATOP-I	TPoP E1-FRAMED	17.6.1	17.6.1		
SFP-TS-OC3STM1-I	TSOP SFP	17.13.1		17.13.1	17.13.1
SFP-TS-OC12STM4-I	TSOP SFP	17.13.1		17.13.1	17.13.1
<b>40G QSFPs</b>					
QSFP-40GE-LR4				NA	
QSFP-40G-LR4				NA	
QSFP-40G-SR4				NA	
QSFP-40G-ER4				NA	
QSFP-40G-LR4-S				NA	
QSFP-40G-SR4-S				NA	

**Notes**

TSOP Optics supported only on 1GigabitEthernet SFP ports of the Cisco ASR-920-12SZ-IM and Cisco ASR-920-24SZ-IM

PartNumber	Description	NCS 4201 and NCS 4202 Series Routers			
		NCS4202-SA	NCS4201-SA	NCS4200-3GMS	NCS4200-1T8LR-PS (8x1G SFP + 1x10G SFP+)

CPAK-100G-SR4 optics support is for version V01 only

GLC-TE on ASR-920-12SZ is supported only with 1000M speed

The Cisco ASR-920-12CZ-A/D supports a maximum of 4 VCoP Smart SFPs on Gig ports (Port number 0,1,10,11) with max ambient temperature of 65°C (OR)

Supports a maximum of 14 VCoP Smart SFPs on all 12 Gig + 2 10GE dual rate ports with max temp of 55°C.

The Cisco ASR-920-12SZ-IM router supports a maximum of 8 VCoP smart SFPs and on all GE and 10GE ports.

The Cisco ASR-920-24SZ-IM, ASR-920-24SZ-M routers support a maximum of 12 VCoP smart SFPs and only on GE ports of the top row

VCoP DS3 Optics is not supported on the Cisco ASR-920-10SZ

QSFP-100G-ER4L-S FEC supports from RLS 17.4.1