

# Product Line Card

Intelligently Transforming Networks

---

# Table of Contents

---

## Page 1. Media Converters

- Ethernet
- Fast Ethernet
- Gigabit Ethernet
- 10 Gigabit Ethernet
- Fiber to Fiber Multi-Rate

## Page 2. Media Converters Continued

- Ethernet Extenders
- DS3 - T3/E3
- DS1 - T1/E1/J1
- Serial
- Analog Video
- PoE Mid-span Injectors
- Chassis

## Page 3. Network Adapters

## Page 4. Switches

- Enterprise
  - Fast Ethernet
  - Gigabit Ethernet
  - 10 Gigabit Ethernet

## Page 5. Switches Continued

- Hardened
  - Fast Ethernet
  - Gigabit Ethernet
  - 10 Gigabit Ethernet

## Page 6. Optical Devices - SFPs

- Duplex
  - Fast Ethernet
  - OC-12/OC-3
  - Gigabit Ethernet
  - Gigabit Ethernet OC-48/OC-12 Fiber Channel 2x 1x
  - Gigabit Ethernet / 10 Gigabit Ethernet

## Page 7. Optical Devices - SFPs Continued

- 10 Gigabit Ethernet
- 40 Gigabit Ethernet
- 100 Gigabit Ethernet
- Simplex
  - Fast Ethernet
  - Fast Ethernet / Gigabit Ethernet
  - Gigabit Ethernet
  - 10 Gigabit Ethernet

## Page 8. Optical Devices - SFPs & CWDM

- Copper
  - Fast Ethernet
  - Gigabit Ethernet
- CWDM Modules
  - Add/Drop Mux
  - Mux/Demux

## Page 9. Power-over-Ethernet Products

- Media Converters
- Network Adapters

## Page 10. Power-over-Ethernet Products

- Enterprise Switches
- Hardened Switches

## Page 11. Hardened Media Converters

## Page 12. Hardened Switches

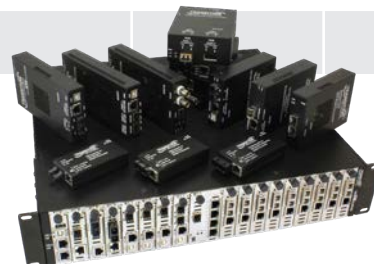
## Page 13. Hardened Optical Devices

- SFPs
- CWDM Modules

# Media Converters

| Ethernet  | Slide-in Card | Stand-Alone           | Mini            | PoE Stand-Alone | Hardened Stand-Alone       | Hardened Mini                         |
|---|---------------|-----------------------|-----------------|-----------------|----------------------------|---------------------------------------|
| 10Base-T to 10Base-FL   |               | E-TBT-FRL-05 Series   |                 |                 |                            |                                       |
| 10Base-5 AUI to 10Base-T RJ-45  |               | E-TBT-MC05            |                 |                 |                            |                                       |
| 10Base-2 to 10Base-T  |               | J/E-CX-TBT-02         |                 |                 |                            |                                       |
| <b>Fast Ethernet</b>  |               |                       |                 |                 |                            |                                       |
| 100Base-TX to 100Base-FX  | C2110 Series  | E-100BTX-FX-05 Series | M/E-TX Series   |                 | E-100BTX-FX-05(HT) Series  |                                       |
| <b>Ethernet / Fast Ethernet</b>   |               |                       |                 |                 |                            |                                       |
| 10/100Base-TX to 100Base-FX   | C2210 Series  | SBFTF Series          | M/E-PSW Series  | SPOEB Series    | SISTF Series               | M/E-ISW Series                        |
| 10/100Base-TX to 100Base-FX with OAM/IP-Based Management                  | C2220 Series  | S2220 Series          |                 |                 |                            |                                       |
| 10/100Base-TX Fault-Tolerant Redundant Link Protector                     |               | SBFTF1010-130         |                 |                 |                            |                                       |
| <b>Gigabit Ethernet</b>   |               |                       |                 |                 |                            |                                       |
| 1000Base-T to 1000Base-SX/LX  | C3110 Series  | SGETF Series          | M/GE-T Series   |                 |                            |                                       |
| <b>Ethernet / Fast Ethernet / Gigabit Ethernet</b>                        |               |                       |                 |                 |                            |                                       |
| 10/100/1000Base-T to 1000Base-SX/LX                                       | C3210 Series  | SGFEB Series          | M/GE-PSW Series | SGPOE Series    | SISTG10xx-211-LRT-B Series | M/GE-ISW Series<br>M/GE-ISW-SFP-01-PD |
| 10/100/1000Base-T PoE+ PSE to 1000Base-X                                  |               |                       |                 | SGPAT Series    |                            |                                       |
| 100/1000Base-X + 10/100/1000Base-T PoE+                                   |               |                       |                 | SI-IES-111D-LRT | SI-IES-111D-LRT            |                                       |
| 100/1000Base-X + (2) 10/100/1000Base-T PoE+                               |               |                       |                 | SI-IES-121D-LRT | SI-IES-121D-LRT            |                                       |
| 10/100/1000Base-T to 1000Base-X with 802.3ah OAM/IP-Based Management      | C3220 Series  | S3220 Series          |                 |                 | S3220 Series               |                                       |
| 10/100/1000Base-T to 1000Base-X with 802.1ag OAM/IP-Based Management      | C3230 Series  | S3230 Series          |                 |                 |                            |                                       |
| Remotely Managed NID with Built-in Traffic Generator                      |               | S3290 Series          |                 |                 |                            |                                       |
| <b>10 Gigabit Ethernet</b>  |               |                       |                 |                 |                            |                                       |
| 10GBase-T Copper to Fiber   | C4120-1048    | S4120-1048            |                 |                 |                            |                                       |
| 10GBase-X to 10GBase-X + 10/100/1000Base-T with Remote Layer 2 Management | C4221-4848    |                       |                 |                 |                            |                                       |
| <b>Fiber to Fiber Multi-Rate</b>  |               |                       |                 |                 |                            |                                       |
| SFP to SFP for Data Rates from 100Mbps to 2.5 Gbps                        | C3100-4040    | S3100-4040            |                 |                 |                            |                                       |
| Fiber to Fiber for Data Rates from 100Mbps to 155Mbps                     |               | F-SM-MM-02            |                 |                 |                            |                                       |
| Fiber to Fiber for 1000Base-X or 1000Base Fiber Channel                   |               | SFMFF1314-220         |                 |                 |                            |                                       |
| SFP+ to SFP+ for Data Rates from 1 Gbps to 11.5 Gbps                      | C4110-4848    | S4110-4848            |                 |                 |                            |                                       |

*\*Continued on Next Page*



**Media Conversion Platform**

# Media Converters

| Ethernet Extenders  | Slide-in Card | Stand-Alone       | Mini | PoE Stand-Alone   | Hardened Stand-Alone           | Hardened Mini |
|---|---------------|-------------------|------|---|--------------------------------|---------------|
| 10/100/1000Base-X + 1000Base-T RJ-45 or 2-Wire Terminal Block |               |                   |      | EO2PSE4052-111 & EO2PD4052-111                                  | EO2PSE4052-111 & EO2PD4052-111 |               |
| 100/1000Base-X + 1000Base Coax BNC                            |               |                   |      | EOCPSE4020-110 & EOCPD4020-110                                  | EOCPSE4020-110 & EOCPD4020-110 |               |
| 100Base-TX RJ-45 + 2-Wire Terminal Block                      |               | IPOTW1052-111-LRT |      | <i>Note: For SFP Ethernet Extender option, view Copper SFPs</i> |                                |               |

## DS3 - T3/E3

|                             |              |  |  |  |              |  |
|-----------------------------|--------------|--|--|--|--------------|--|
| DS3 – T3/E3 Coax over Fiber | C6210 Series |  |  |  | S6210 Series |  |
|-----------------------------|--------------|--|--|--|--------------|--|

## DS1 - T1/E1/J1

|   |              |  |  |  |              |  |
|---|--------------|--|--|--|--------------|--|
| T1/E1 over Fiber                          | C6010 Series |  |  |  | S6010 Series |  |
| 4 x T1/E1/J1 over Fiber                   | C6110 Series |  |  |  | S6110 Series |  |
| 4 x T1/E1/J1 + 10/100 Ethernet over Fiber | C6120 Series |  |  |  | S6120 Series |  |

## Serial

|   |  |               |  |  |                     |  |
|---|--|---------------|--|--|---------------------|--|
| RS232 Copper to Fiber Media Converter   |  | J/R232 Series |  |  |                     |  |
| RS-232/422/485 + (2) 10/100Base-TX      |  |               |  |  | SDSTX3110-121-LRT-B |  |
| RS-232/422/485 + (2) 10/100Base-TX Slim |  |               |  |  | SDSTX3110-1215-LRT  |  |
| (4) RS-232/422/485 + (2) 10/100Base-TX  |  |               |  |  | SDSTX3110-124-LRT-B |  |

## Analog Video

|                                   |  |             |  |  |  |  |
|-----------------------------------|--|-------------|--|--|--|--|
| Analog CCTV Video Media Converter |  | J/VD Series |  |  |  |  |
|-----------------------------------|--|-------------|--|--|--|--|

## PoE Mid-span Injectors *Note: For more PoE options, view Power-over-Ethernet Products.*

|  |  |  |  |                 |                 |  |
|--|--|--|--|-----------------|-----------------|--|
| 10/100Base-T 1-Port PoE Mid-Span Injector  |  |  |  | MIL-L100i       |                 |  |
| 10/100/1000Base-T PoE+ Injector            |  |  |  | L1000i-at       |                 |  |
| 10/100/1000Base-T + 10/100/1000Base-T PoE+ |  |  |  | SI-IES-1200-LRT | SI-IES-1200-LRT |  |

| Chassis                              | Chassis       | Accessories  | AC Power Supply | DC Power Supply |  |  |
|--------------------------------------|---------------|--------------|-----------------|-----------------|--|--|
| 1-Slot ION Chassis                   | ION001-A      |              |                 |                 |  |  |
| 2-Slot ION Chassis                   | ION002-AD     |              |                 |                 |  |  |
| 6-Slot ION Chassis                   | ION106        |              | IONPS6-A        | IONPS6-D        |  |  |
| 19-Slot ION Chassis                  | ION219        |              | IONPS-A-R1      | IONPS-D         |  |  |
| ION Management Module                |               | IONMM Series |                 |                 |  |  |
| ION Adapter Card                     |               | IONADP       |                 |                 |  |  |
| 18-Slot Mini Media Converter Chassis | M-MCR-01      |              |                 |                 |  |  |
| 12-Slot Media Converter Rack         | E-MCR-05      |              |                 |                 |  |  |
| 4-Slot Media Converter Shelf         | RMS19-SA4-02  |              |                 |                 |  |  |
| 2-Slot Shelf for S3290 Series NID    | RMS19-NID2-01 |              |                 |                 |  |  |



ION219



ION106

# Network Adapters

## Express Card

|             |               |                     |     |
|-------------|---------------|---------------------|-----|
| 100Base-FX  | Fast Ethernet | 10 Gigabit Ethernet | PoE |
| 1000Base-SX | Fast Ethernet | Gigabit Ethernet    |     |

## M.2

|  |               |                  |                     |     |
|--|---------------|------------------|---------------------|-----|
| 100Base-FX for Dell OptiPlex™ 7040/7050 & Wyse 7000    | Fast Ethernet | Gigabit Ethernet | 10 Gigabit Ethernet | PoE |
| 100Base-FX for Dell OptiPlex™ 7060/5060/3060           | Fast Ethernet | Gigabit Ethernet |                     |     |
| 1000Base-SX/X for Dell OptiPlex™ 7040/7050 & Wyse 7000 |               | Gigabit Ethernet |                     |     |
| 1000Base-X for Dell OptiPlex™ 7060/5060/3060           |               | Gigabit Ethernet |                     |     |

## PCI

|            |               |                  |                     |     |
|------------|---------------|------------------|---------------------|-----|
| 100Base-FX | Fast Ethernet | Gigabit Ethernet | 10 Gigabit Ethernet | PoE |
|------------|---------------|------------------|---------------------|-----|

## PCIe

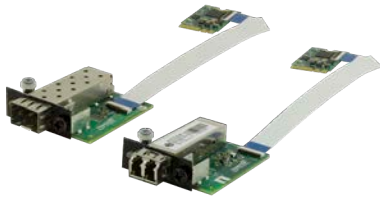
|   |               |                  |                     |     |
|---|---------------|------------------|---------------------|-----|
| 100Base-FX  | Fast Ethernet | Gigabit Ethernet | 10 Gigabit Ethernet | PoE |
| 1000Base-X and 10/100/1000Base-T PoE+               |               | Gigabit Ethernet |                     | X   |
| 1000Base-SX with Windows 10 Support and Wake-on-LAN |               | Gigabit Ethernet |                     |     |
| 10GBase-SR/LR SFP+                                  |               |                  | 10 Gigabit Ethernet |     |

## PCMCIA

|            |               |                  |                     |     |
|------------|---------------|------------------|---------------------|-----|
| 100Base-FX | Fast Ethernet | Gigabit Ethernet | 10 Gigabit Ethernet | PoE |
|------------|---------------|------------------|---------------------|-----|

## USB

|             |               |                  |                     |     |
|-------------|---------------|------------------|---------------------|-----|
| 100Base-FX  | Fast Ethernet | Gigabit Ethernet | 10 Gigabit Ethernet | PoE |
| 1000Base-SX |               | Gigabit Ethernet |                     |     |



NM2-GXE-2230-xx-01 Series



TN-USB3-SX-01 Series



N-FX-xx-03 Series



N-GXE-POE-xx-01 Series



N-TGE-SFP-01



NEC-FXE-xx-01 Series

# Switches

## Enterprise

| Fast Ethernet   | 7 or Less Ports | 8 to 12 Ports | 13-18 Ports | 19 or More Ports | Managed | PoE | PoE+ | PoE++ | APR |
|---|-----------------|---------------|-------------|------------------|---------|-----|------|-------|-----|
| (8) 10/100Base-TX Ports   |                 | S8TXA         |             |                  |         |     |      |       |     |
| (24) 10/100Base-TX Ports  |                 |               |             | S24TXA           |         |     |      |       |     |
| <b>Gigabit Ethernet</b>   |                 |               |             |                  |         |     |      |       |     |
| (4) 10/100/1000Base-T Ports + (4) 100/1000 SFP Slots  |                 | SM4T4DPA      |             |                  | X       |     |      |       |     |
| (8) 10/100/1000Base-T Ports   |                 | S8TB          |             |                  |         |     |      |       |     |
| (8) 10/100/1000Base-T Ports + (2) 100/1000 SFP/RJ-45 Combo Ports                                |                 | SM8TAT2DPB    |             |                  | X       | X   | X    |       | X   |
| (8) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots  |                 | SM8TAT2SA     |             |                  | X       | X   | X    |       | X   |
| (8) 10/100/1000Base-T Ports + (2) 100/1000 SFP/RJ-45 Ports                                      |                 | SM10T2DPA     |             |                  | X       |     |      |       |     |
| (12) 100/1000Base-X SFP Slots + (2) 1G/10GBase-X SFP+ Slots + (2) 10/100/1000Base-T RJ-45 Ports |                 |               | SM12DP2XA   |                  | X       |     |      |       |     |
| (16) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots   |                 |               | SM16TAT2SA  |                  | X       | X   | X    |       | X   |
| (24) 10/100/1000Base-T Ports + (2) 100/1000 SFP/RJ-45 Combo Ports                               |                 |               |             | SM24TAT2DPA      | X       | X   | X    |       | X   |
| (24) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP/RJ-45 Combo Ports                         |                 |               |             | SM24TBT2DPA      | X       | X   | X    | X     | X   |
| (24) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots   |                 |               |             | SM24TAT2SA       | X       | X   | X    |       | X   |
| (20) 100/1000Base-X SFP Ports + (4) 100/1000Base-X SFP/RJ-45 Combo Ports                        |                 |               |             | SM24DPB          | X       |     |      |       |     |
| (20) 10/100/1000Base-T Ports + (4) 100/1000 SFP/RJ-45 Combo Ports + (2) 100/1000 SFP Ports      |                 |               |             | SM24T6DPA        | X       |     |      |       |     |
| (24) 10/100/1000Base-T Ports + (4) 1000/10GBase SFP+ Ports                                      |                 |               |             | SM24TAT4XA       | X       | X   | X    |       | X   |
| <b>10 Gigabit Ethernet</b>  |                 |               |             |                  |         |     |      |       |     |
| (4) 1000/10GBase SFP+ Ports   | S4140           |               |             |                  | X       |     |      |       |     |
| (24) 100/1000Base SFP Ports + (4) 1000Base/10GBase SFP+ Ports                                   |                 |               |             | S4224 Series     | X       |     |      |       |     |

\*Continued on Next Page



SM8TAT2SA, SM16TAT2SA, SM24TAT2SA



SM24TBT2DPA



Note: APR - Auto Power Reset - is a unique feature offered on our PoE Devices to remotely reboot and power-cycle unresponsive PoE powered devices, saving time and money.

# Switches

## Hardened

### Fast Ethernet

|  | 7 or Less Ports   | 8 to 12 Ports      | 13-18 Ports          | 19 or More Ports | Managed | PoE | PoE+ | PoE++ | APR |
|--|-------------------|--------------------|----------------------|------------------|---------|-----|------|-------|-----|
| (4) 10/100Base-TX Ports + (1) 100Base-FX Port  | SISTF101x-241-LRT |                    |                      |                  |         |     |      |       |     |
| (4) 10/100Base-TX PoE Ports + (1) 100Base-FX Port  | SISTP101x-141-LRT |                    |                      |                  |         | X   |      |       |     |
| (5) 10/100Base-TX Ports or (8) 10/100Base-TX Ports   | SISTF1010-2x0-LRT | SISTF1010-2x0-LRT  |                      |                  |         |     |      |       |     |
| (7) 10/100Base-TX Ports + (3) 100/1000Base-X Combo Ports                                     |                   | SISTM1040-173D-LRT |                      |                  | X       |     |      |       |     |
| (16) 10/100Base-TX Ports + (2) 10/100/1000Base-T Ports or (2) 100/1000Base-X SFP Combo Ports |                   |                    | SISTF1040-162D-LRT   |                  |         |     |      |       |     |
| (16) 10/100Base-TX Ports + (2) 10/100/1000Base-T Ports or (2) 100/1000Base-X SFP Combo Ports |                   |                    | SISTM1040-262D-LRT-B |                  | X       |     |      |       |     |

### Gigabit Ethernet

|   |                   |                     |  |  |   |   |   |   |   |
|---|-------------------|---------------------|--|--|---|---|---|---|---|
| (4) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP Slots  | SISTG1040-242-LRT |                     |  |  |   |   |   |   |   |
| (4) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots   | SISTP1040-342-LRT |                     |  |  |   | X | X |   |   |
| (4) 10/100/1000Base-T PoE+ + (2) 10/100/1000Base-T RJ-45 + (2) 100/1000Base-X SFP Ports                           |                   | SISPM1040-362-LRT   |  |  | X | X | X |   | X |
| (4 or 7 or 8) 10/100/1000Base RJ-45 Ports + (1 or 2) 100/1000Base-X SFP Ports + (2) 100/1000/2500Base-X SFP Ports |                   | INDURA              |  |  | X |   |   |   |   |
| (8) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP Slots  |                   | SISTG1040-282-LRT   |  |  |   |   |   |   |   |
| (8) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots   |                   | SISTP1040-382-LRT   |  |  |   | X | X |   |   |
| (8) 10/100/1000Base-T PoE++ Ports + (2) 100/1000Base-X SFP Slots  |                   | SISPM1040-582-LRT   |  |  | X | X | X | X | X |
| (8) 10/100/1000Base-TX Ports + (4) 100/1000Base-X SFP Slots   |                   | SISGM1040-184D-LRT  |  |  | X |   |   |   |   |
| (8) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Slots   |                   | SISPM1040-384-LRT-C |  |  | X | X | X |   | X |

### 10 Gigabit Ethernet

3 Full size bays – accommodates (8) port 100/1000Base modules, 1 Half size bay – accommodates (2) or (4) port 1000/10Gb SFP module

SISGM-CHAS-Lx

SISGM-CHAS-Lx

SISGM-CHAS-Lx

X



SISPM1040-362-LRT & SISPM1040-384-LRT-C



SISPM1040-582-LRT



Note: APR - Auto Power Reset - is a unique feature offered on our PoE Devices to remotely reboot and power-cycle unresponsive PoE powered devices, saving time and money.

# Optical Devices - SFPs

## Duplex

### Fast Ethernet

|   |                           | Fiber Type | Compatability | Enterprise | Hardened | Distance     | CWDM Wavelength |
|---|---------------------------|------------|---------------|------------|----------|--------------|-----------------|
| 100Base-FX multimode (LC)                                 | TN-JX-GE-100FX            | MM         | Juniper       | X          |          | 2KM          |                 |
| 100Base-FX/OC-3 multimode (LC) with DMI                   | TN-SFP-OC3M Series        | MM         | MSA           | X          | X        | 2KM          |                 |
| 100Base-FX (LC)   | TN-GLC-FE-100xX Series    | MM / SM    | Cisco         | X          | X        | 10KM - 120KM |                 |
| 100Base-FX/OC-3 single mode (LC) with DMI                 | TN-SFP-OC3Sx Series       | SM         | MSA           | X          | X        | 20KM - 120KM |                 |
| 100Base-FX/OC-3 single mode (LC) with DMI                 | TN-SFP-OC3S8-Cxx Series   | SM         | MSA           | X          |          | 80KM         | X               |
| 100Base-LX/SONET OC-3/SDH STM-1 single mode (LC) with DMI | TN-CWDM-100LX-1xx0 Series | SM         | Cisco         | X          |          | 80KM         | X               |

### OC-12/OC-3

|                               |                    |         |     |   |  |            |  |
|-------------------------------|--------------------|---------|-----|---|--|------------|--|
| OC-12/STM-4 SFP (LC) with DMI | TN-SFP-OC12 Series | MM / SM | MSA | X |  | 1KM - 80KM |  |
|-------------------------------|--------------------|---------|-----|---|--|------------|--|

### Gigabit Ethernet

|  |                            |         |         |   |   |              |   |
|--|----------------------------|---------|---------|---|---|--------------|---|
| 1000Base-SX multimode (LC)                             | TN-SFP-SX Series           | MM      | MSA     | X |   | 220/550m     |   |
| 1000Base-SX multimode (LC)                             | TN-GLC-SX-MM Series        | MM      | Cisco   | X | X | 220m - 2KM   |   |
| 1000Base-X (LC)  | TN-EX-SFP-1GE Series       | MM / SM | Juniper | X |   | 220m - 160KM |   |
| 1000Base-X (LC)  | TN-J48xxC Series           | MM / SM | HP      | X |   | 220m - 80KM  |   |
| 1000Base-X (LC) with DMI                               | TN-SFP-GE-x Series         | MM / SM | Cisco   |   | X | 220m - 80KM  |   |
| 1000Base-SX multimode (LC) with DMI                    | TN-SFP-ESxx Series         | MM      | MSA     | X |   | 2KM          |   |
| 1000Base-LX single mode (LC)                           | TN-GLC-LH-SM Series        | SM      | Cisco   | X | X | 10KM - 40KM  |   |
| 1000Base-LX single mode (LC)                           | TN-SFP-LX Series           | SM      | MSA     | X | X | 10KM - 200KM |   |
| 1000Base-LX/ZX Fiber Channel single mode (LC) with DMI | TN-CWDM-SFP-1xx0-40 Series | SM      | Cisco   | X |   | 40KM         | X |
| 1000Base-LX/Fiber Channel 1x single mode (LC) with DMI | TN-SFP-LX8-Cxxx Series     | SM      | MSA     | X | X | 80KM         | X |
| 1000Base-LX/ZX Fiber Channel single mode (LC) with DMI | TN-CWDM-SFP-1xx0 Series    | SM      | Cisco   | X |   | 80KM         | X |
| 1000Base-LX single mode (LC) with DMI                  | TN-GLC-ZX-SM Series        | SM      | Cisco   | X | X | 80KM - 150KM |   |
| 1000Base-LX/ZX Fiber Channel single mode (LC) with DMI | TN-CWDM-SFP-1xx0-16 Series | SM      | Cisco   | X |   | 160KM        | X |
| 1000Base-LX/Fiber Channel 1x single mode (LC) with DMI | TN-SFP-LX16-Cxx Series     | SM      | MSA     | X |   | 160KM        | X |

### Gigabit Ethernet OC-48/OC-12 Fiber Channel 2x 1x

|   |              |    |     |   |  |          |  |
|---|--------------|----|-----|---|--|----------|--|
| Fiber Channel 2x/1x/OC-48/STM-16/1000Base-X (LC) with DMI | TN-SFP-FC2XM | MM | MSA | X |  | 150-300m |  |
|---|--------------|----|-----|---|--|----------|--|

### Gigabit Ethernet / 10 Gigabit Ethernet

|  |                           |    |     |   |  |           |   |
|--|---------------------------|----|-----|---|--|-----------|---|
| 10GBase-X/1000Base-X, SFP+ with DMI single mode (LC)   | TN-10GSFP-LRxM Series     | SM | MSA | X |  | 10KM-80KM |   |
| 10GBase-ZR/1000Base-ZX, SFP+ with DMI single mode (LC) | TN-10GSFP-LR8M-Cxx Series | SM | MSA | X |  | 80KM      | X |

\*Continued on Next Page

Fiber Type Note: MM = Multimode Fiber, SM = Single Mode Fiber



# Optical Devices - SFPs

|  |                            | Fiber Type | Compatability | Enterprise | Hardened | Distance     | CWDM Wavelength |
|--|----------------------------|------------|---------------|------------|----------|--------------|-----------------|
| <b>10 Gigabit Ethernet</b>   |                            |            |               |            |          |              |                 |
| 10GBase-SR/1000Base-SX, SFP+ With DMI Multimode (LC)                 | TN-10GSFP-SRM              | MM         | MSA           | X          |          | 33m - 300m   |                 |
| 10GBase-X, SFP+ with DMI (LC)  | TN-10GSFP-xRx Series       | MM / SM    | MSA           | X          | X        | 33m - 10KM   |                 |
| 10GBase-X Fiber Channel, XFP with DMI (LC)                           | TN-XFP-xxx Series          | MM / SM    | MSA           | X          |          | 33m - 100KM  |                 |
| 10GBase-X/ 10G Fiber Channel / OC-192 (LC) with DMI                  | TN-XFP-10Gxxx Series       | MM / SM    | Cisco         | X          |          | 33m - 80KM   |                 |
| 10GBase-X, SFP+ with DMI (LC) for HP X130                            | TN-JD09xB Series           | MM / SM    | HP            | X          |          | 220m - 10KM  |                 |
| 10GBase-X, SFP+ with DMI (LC) for HP X132                            | TN-J915xA Series           | MM / SM    | HP            | X          |          | 220m - 40KM  |                 |
| 10GBase-X, SFP+ with DMI (LC)  | TN-SFP-10G-xR Series       | MM / SM    | Cisco         | X          |          | 220m - 80KM  |                 |
| 10GBase-LR/LW/10G Fiber Channel, SFP+ with DMI single mode (LC)      | TN-CWDM-10G-1xx0-40 Series | SM         | Cisco         | X          |          | 40KM         | X               |
| XFP, 10GBase-ER/10G Fiber Channel single mode (LC) with DMI          | TN-XFP-LR4-Cxx Series      | SM         | MSA           | X          |          | 40KM         | X               |
| 10GBase-ER/ZR or 1000Base-LX/ZX, SFP+ With DMI Single Mode (LC)      | TN-10GSFP-LRxM-Dxx Series  | SM         | MSA           | X          |          | 40KM - 80KM  | DWDM            |
| XFP, 10GBase-ZR/10G Fiber Channel single mode (LC) with DMI          | TN-XFP-LR7-Cxx Series      | SM         | MSA           | X          |          | 70KM         | X               |
| 10GBase-LR/LW/10G Fiber Channel, SFP+ with DMI single mode (LC)      | TN-CWDM-10G-1xx0-80 Series | SM         | Cisco         | X          |          | 80KM         | X               |
| <b>40 Gigabit Ethernet</b>   |                            |            |               |            |          |              |                 |
| QSFP+ 40GBase-X with DMI   | TN-QSFP-40G Series         | MM / SM    | Cisco         | X          |          | 100m - 30KM  |                 |
| <b>100 Gigabit Ethernet</b>  |                            |            |               |            |          |              |                 |
| QSFP+ 100GBase-X with DMI  | TN-QSFP-100G Series        | MM / SM    | Cisco         | X          |          | 70m - 10KM   |                 |
| <b>Simplex</b>   |                            |            |               |            |          |              |                 |
| <b>Fast Ethernet</b>   |                            |            |               |            |          |              |                 |
| 100Base-FX multimode (SC) with DMI                                   | TN-SFP-OC3MB Series        | MM         | MSA           | X          |          | 2KM          |                 |
| 100Base-BX single fiber single mode (LC)                             | TN-GLC-FE-100BX Series     | SM         | Cisco         | X          | X        | 10KM - 120KM |                 |
| 100Base-FX/OC-3 single mode (LC) with DMI                            | TN-SFP-OC3SB Series        | SM         | MSA           | X          |          | 20KM - 200KM |                 |
| <b>Fast Ethernet / Gigabit Ethernet</b>                              |                            |            |               |            |          |              |                 |
| 100Base-BX/1000Base-BX single mode (LC) with DMI                     | TN-SFP-LXMB1x Series       | SM         | MSA           | X          |          | 10KM         |                 |
| OTDR SFP, 1000Base-LX/100Base-FX single fiber single mode            | TN-SFP-BC55-x Series       | SM         | MSA           |            | X        | 40KM         |                 |
| <b>Gigabit Ethernet</b>  |                            |            |               |            |          |              |                 |
| 1000Base-SX multimode (LC) with DMI                                  | TN-SFP-SXB Series          | SM         | MSA           | X          |          | 500m         |                 |
| 1000Base-BX single fiber single mode (LC) with DMI                   | TN-GLC-BX Series           | SM         | Cisco         | X          |          | 10KM - 120KM |                 |
| 1000Base-LX single mode (LC) with DMI                                | TN-SFP-LXB Series          | SM         | MSA           | X          | X        | 10KM - 160KM |                 |
| <b>10 Gigabit Ethernet</b>   |                            |            |               |            |          |              |                 |
| 10GBase-X / 10G Fiber Channel single fiber single mode (LC) with DMI | TN-XFP-10G-x Series        | SM         | Cisco         | X          |          | 10KM - 40KM  |                 |
| 10GBase-X, SFP+ with DMI (LC)  | TN-SFP-10G-x-xx Series     | SM         | Cisco         | X          |          | 220m - 80KM  |                 |

\*Continued on Next Page

Fiber Type Note: MM = Multimode Fiber, SM = Single Mode Fiber



TN-10GSFP-LRxM Series



TN-QSFP-100G Series



TN-QSFP-40G Series

## Optical Devices - SFPs & CWDM Modules

### Copper

#### Fast Ethernet

|  |  | Compatability | Enterprise | Hardened | Distance | CWDM Wavelength |
|--|--|---------------|------------|----------|----------|-----------------|
|--|--|---------------|------------|----------|----------|-----------------|

100Base-TX (RJ-45)

TN-SFP-TX

MSA

X

100m

#### Gigabit Ethernet

|                    |                 |       |   |  |      |  |
|--------------------|-----------------|-------|---|--|------|--|
| 1000Base-T (RJ-45) | TN-GLC-T Series | Cisco | X |  | 100m |  |
|--------------------|-----------------|-------|---|--|------|--|

|                    |             |       |  |   |      |  |
|--------------------|-------------|-------|--|---|------|--|
| 1000Base-T (RJ-45) | TN-SFP-GE-T | Cisco |  | X | 100m |  |
|--------------------|-------------|-------|--|---|------|--|

|                           |             |     |   |  |      |  |
|---------------------------|-------------|-----|---|--|------|--|
| 10/100/1000Base-T (RJ-45) | TN-SFP-T-MG | MSA | X |  | 100m |  |
|---------------------------|-------------|-----|---|--|------|--|

|  |                  |     |  |   |       |  |
|--|------------------|-----|--|---|-------|--|
| Ethernet Extender SFP, 1000Base-X, RJ-45 | TN-EOT-xx Series | MSA |  | X | 3000m |  |
|--|------------------|-----|--|---|-------|--|

### CWDM Modules

#### Add/Drop Mux

|  |  | Channels | Enterprise | Hardened |
|--|--|----------|------------|----------|
|--|--|----------|------------|----------|

1 Channel with E/W lines

CWDM-A2A8xxLCR Series

1

X

#### Mux/Demux

|                           |              |   |   |  |
|---------------------------|--------------|---|---|--|
| 4 Channel + OSC Duplex LC | CWDM-M551LCR | 4 | X |  |
|---------------------------|--------------|---|---|--|

|                           |              |   |   |  |
|---------------------------|--------------|---|---|--|
| 8 Channel + OSC Duplex LC | CWDM-M947LCR | 8 | X |  |
|---------------------------|--------------|---|---|--|

|                            |                      |    |   |   |
|----------------------------|----------------------|----|---|---|
| 16 Channel + OSC Duplex LC | CWDM-M1631LCR Series | 16 | X | X |
|----------------------------|----------------------|----|---|---|



TN-EOT-xx Series



CWDM-M1631LCR



CWDM-A2A8xxLCR

# Power-over-Ethernet Products

## Media Converters

| Ethernet / Fast Ethernet                                      | Enterprise                     | Hardened                       | PoE+ |
|---|--------------------------------|--------------------------------|------|
| 10/100Base-TX to 100Base-FX                                   | SPOEB Series                   |                                |      |
| <b>Ethernet / Fast Ethernet / Gigabit Ethernet</b>            |                                |                                |      |
| 10/100/1000Base-T to 1000Base-SX/LX                           | SGPOE Series                   |                                |      |
| 10/100/1000Base-T PoE+ PSE to 1000Base-X                      | SGPAT Series                   |                                | X    |
| 100/1000Base-X + 10/100/1000Base-T PoE+                       | SI-IES-111D-LRT                | SI-IES-111D-LRT                | X    |
| 100/1000Base-X + (2) 10/100/1000Base-T PoE+                   | SI-IES-121D-LRT                | SI-IES-121D-LRT                | X    |
| <b>Ethernet Extenders</b>                                     |                                |                                |      |
| 10/100/1000Base-X + 1000Base-T RJ-45 or 2-Wire Terminal Block | EO2PSE4052-111 & EO2PD4052-111 | EO2PSE4052-111 & EO2PD4052-111 | X    |
| 100/1000Base-X + 1000Base Coax BNC                            | EOCPSE4020-110 & EOCPD4020-110 | EOCPSE4020-110 & EOCPD4020-110 | X    |
| <b>PoE Mid-span Injectors</b>                                 |                                |                                |      |
| 10/100Base-T 1-Port PoE Mid-Span Injector                     | MIL-L100i                      |                                |      |
| 10/100/1000Base-T PoE+ Injector                               | L1000i-at                      |                                |      |
| 10/100/1000Base-T + 10/100/1000Base-T PoE+                    | SI-IES-1200-LRT                | SI-IES-1200-LRT                | X    |

## Network Adapters

|                                       |                        |      |
|---------------------------------------|------------------------|------|
| 1000Base-X and 10/100/1000Base-T PoE+ | N-GXE-PoE-xx-01 Series | PoE+ |
|---------------------------------------|------------------------|------|

*\*Continued on Next Page*



SPOEB Series



SGPAT Series



EOCPSE4020-110 & EOCPD4020-110



L1000i-at



N-GXE-PoE-xx-01 Series

# Power-over-Ethernet Products

## Enterprise Switches

| Gigabit Ethernet  | 7 or Less Ports | 8 to 12 Ports | 13-18 Ports | 19 or More Ports | Managed | PoE+ | PoE++ |
|---|-----------------|---------------|-------------|------------------|---------|------|-------|
| (8) 10/100/1000Base-T Ports + (2) 100/1000 SFP/RJ-45 Combo Ports        |                 | SM8TAT2DPB    |             |                  | X       | X    |       |
| (8) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots                    |                 | SM8TAT2SA     |             |                  | X       | X    |       |
| (16) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots                   |                 |               | SM16TAT2SA  |                  | X       | X    |       |
| (24) 10/100/1000Base-T Ports + (2) 100/1000 SFP/RJ-45 Combo Ports       |                 |               |             | SM24TAT2DPA      | X       | X    |       |
| (24) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP/RJ-45 Combo Ports |                 |               |             | SM24TBT2DPA      | X       | X    | X     |
| (24) 10/100/1000Base-T Ports + (2) 100/1000 SFP Slots                   |                 |               |             | SM24TAT2SA       | X       | X    |       |
| (24) 10/100/1000Base-T Ports + (4) 1000/10GBase SFP+ Ports              |                 |               |             | SM24TAT4XA       | X       | X    |       |

## Hardened Switches

### Fast Ethernet

|   |                   |                     |  |  |   |   |   |
|---|-------------------|---------------------|--|--|---|---|---|
| (4) 10/100Base-TX PoE Ports + (1) 100Base-FX Port                                       | SISTP101x-141-LRT |                     |  |  |   |   |   |
| (4) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots                         | SISTP1040-342-LRT |                     |  |  |   | X |   |
| (4) 10/100/1000Base-T PoE+ + (2) 10/100/1000Base-T RJ-45 + (2) 100/1000Base-X SFP Ports |                   | SISPM1040-362-LRT   |  |  | X | X |   |
| (8) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots                         |                   | SISTP1040-382-LRT   |  |  |   | X |   |
| (8) 10/100/1000Base-T PoE++ Ports + (2) 100/1000Base-X SFP Slots                        |                   | SISPM1040-582-LRT   |  |  | X | X | X |
| (8) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Ports                         |                   | SISPM1040-384-LRT-C |  |  | X | X |   |



SM24TBT2DPA



SM8TAT2SA, SM16TAT2SA, SM24TAT2SA



SISPM1040-362-LRT & SISPM1040-384-LRT-C

# Hardened Products - Media Converters

| Fast Ethernet  | Stand-Alone                    | Mini                                  | PoE+ |
|--|--------------------------------|---------------------------------------|------|
| 100Base-TX to 100Base-FX   | E-100BTX-FX-05(HT) Series      |                                       |      |
| <b>Ethernet / Fast Ethernet</b>                                      |                                |                                       |      |
| 10/100Base-TX to 100Base-FX  | SISTF Series                   | M/E-ISW Series                        |      |
| <b>Ethernet / Fast Ethernet / Gigabit Ethernet</b>                   |                                |                                       |      |
| 10/100/1000Base-T to 1000Base-SX/LX                                  | SISTG10xx-211-LRT-B Series     | M/GE-ISW Series<br>M/GE-ISW-SFP-01-PD |      |
| 100/1000Base-X + 10/100/1000Base-T PoE+                              | SI-IES-111D-LRT                |                                       | X    |
| 100/1000Base-X + (2) 10/100/1000Base-T PoE+                          | SI-IES-121D-LRT                |                                       | X    |
| 10/100/1000Base-T to 1000Base-X with 802.3ah OAM/IP-Based Management | S3220 Series                   |                                       |      |
| <b>Ethernet Extenders</b>  |                                |                                       |      |
| 10/100/1000Base-X + 1000Base-T RJ-45 or 2-Wire Terminal Block        | E02PSE4052-111 & E02PD4052-111 |                                       | X    |
| 100/1000Base-X + 1000Base Coax BNC                                   | E0CPSE4020-110 & E0CPD4020-110 |                                       | X    |
| <b>DS3 - T3/E3</b>   |                                |                                       |      |
| DS3 – T3/E3 Coax over Fiber  | S6210 Series                   |                                       |      |
| <b>DS1 - T1/E1/J1</b>  |                                |                                       |      |
| T1/E1 over Fiber   | S6010 Series                   |                                       |      |
| 4 x T1/E1/J1 over Fiber  | S6110 Series                   |                                       |      |
| 4 x T1/E1/J1 + 10/100 Ethernet over Fiber                            | S6120 Series                   |                                       |      |
| <b>Serial</b>  |                                |                                       |      |
| RS-232/422/485 + (2) 10/100Base-TX                                   | SDSTX3110-121-LRT-B            |                                       |      |
| RS-232/422/485 + (2) 10/100Base-TX Slim                              | SDSTX3110-121S-LRT             |                                       |      |
| (4) RS-232/422/485 + (2) 10/100Base-TX                               | SDSTX3110-124-LRT-B            |                                       |      |
| <b>PoE Mid-span Injectors</b>  |                                |                                       |      |
| 10/100/1000Base-T + 10/100/1000Base-T PoE+                           | SI-IES-1200-LRT                |                                       | X    |

*\*Continued on Next Page*



M/E-ISW Series



SI-IES-111D-LRT



E02PSE4052-111 & E02PD4052-111



S6210 Series



S6010 Series



SDSTX3110-121-LRT-B

## Hardened Products - Switches

| Fast Ethernet  | 7 or Less Ports   | 8 to 12 Ports       | 13-18 Ports          | 19 or More Ports | Managed | PoE | PoE+ | PoE++ |
|--|-------------------|---------------------|----------------------|------------------|---------|-----|------|-------|
| (4) 10/100Base-TX Ports + (1) 100Base-FX Port  | SISTF101x-241-LRT |                     |                      |                  |         |     |      |       |
| (4) 10/100Base-TX PoE Ports + (1) 100Base-FX Port  | SISTP101x-141-LRT |                     |                      |                  |         | X   |      |       |
| (5) 10/100Base-TX Ports or (8) 10/100Base-TX Ports   | SISTF1010-2x0-LRT | SISTF1010-2x0-LRT   |                      |                  |         |     |      |       |
| (7) 10/100Base-TX Ports + (3) 100/1000Base-X Combo Ports   |                   | SISTM1040-173D-LRT  |                      |                  | X       |     |      |       |
| (16) 10/100Base-TX Ports + (2) 10/100/1000Base-T Ports or (2) 100/1000Base-X SFP Combo Ports                                       |                   |                     | SISTF1040-162D-LRT   |                  |         |     |      |       |
| (16) 10/100Base-TX Ports + (2) 10/100/1000Base-T Ports or (2) 100/1000Base-X SFP Combo Ports                                       |                   |                     | SISTM1040-262D-LRT-B |                  | X       |     |      |       |
| <b>Gigabit Ethernet</b>  |                   |                     |                      |                  |         |     |      |       |
| (4) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP Slots   | SISTG1040-242-LRT |                     |                      |                  |         |     |      |       |
| (4) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots  | SISTP1040-342-LRT |                     |                      |                  |         | X   | X    |       |
| (4) 10/100/1000Base-T PoE+ + (2) 10/100/1000Base-T RJ-45 + (2) 100/1000Base-X SFP Ports  |                   | SISPM1040-362-LRT   |                      |                  | X       | X   | X    |       |
| (4 or 7 or 8) 10/100/1000Base RJ-45 Ports + (1 or 2) 100/1000Base-X SFP Ports + (2) 100/1000/2500Base-X SFP Ports                  |                   | INDURA              |                      |                  | X       |     |      |       |
| (8) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP Slots   |                   | SISTG1040-282-LRT   |                      |                  |         |     |      |       |
| (8) 10/100/1000Base-T PoE+ Ports + (2) 100/1000Base-X SFP Slots  |                   | SISTP1040-382-LRT   |                      |                  |         | X   | X    |       |
| (8) 10/100/1000Base-T PoE++ Ports + (2) 100/1000Base-X SFP Slots   |                   | SISPM1040-582-LRT   |                      |                  | X       | X   | X    | X     |
| (8) 10/100/1000Base-TX Ports + (4) 100/1000Base-X SFP Ports  |                   | SISGM1040-184D-LRT  |                      |                  | X       |     |      |       |
| (8) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Ports  |                   | SISPM1040-384-LRT-C |                      |                  | X       | X   | X    |       |
| <b>10 Gigabit Ethernet</b>   |                   |                     |                      |                  |         |     |      |       |
| 3 Full size bays – accommodates (8) port 100/1000Base modules, 1 Half size bay – accommodates (2) or (4) port 1000/10Gb SFP module |                   | SISGM-CHAS-Lx       | SISGM-CHAS-Lx        | SISGM-CHAS-Lx    | X       |     |      |       |

\*Continued on Next Page



# Hardened Products - Optical Devices- SFPs & CWDM

| Duplex  |                        |            |               |              |            |
|---|------------------------|------------|---------------|--------------|------------|
| Fast Ethernet   |                        | Fiber Type | Compatability | Distance     | Enterprise |
| 100Base-FX/OC-3 multimode (LC) with DMI                   | TN-SFP-OC3M Series     | MM         | MSA           | 2KM          | X          |
| 100Base-FX (LC)   | TN-GLC-FE-100xx Series | MM / SM    | Cisco         | 10KM - 120KM | X          |
| 100Base-FX/OC-3 single mode (LC) with DMI                 | TN-SFP-OC3Sx Series    | SM         | MSA           | 20KM         |            |
| Gigabit Ethernet  |                        |            |               |              |            |
| 1000Base-SX multimode (LC)                                | TN-GLC-SX-MM Series    | MM         | Cisco         | 220m - 2KM   | X          |
| 1000Base-X (LC) with DMI                                  | TN-SFP-GE-x Series     | MM / SM    | Cisco         | 550m - 80KM  |            |
| 1000Base-LX single mode (LC)                              | TN-GLC-LH-SM Series    | SM         | Cisco         | 10KM - 40KM  | X          |
| 1000Base-LX single mode (LC) with DMI                     | TN-SFP-LX Series       | SM         | MSA           | 10KM - 200KM | X          |
| 1000Base-LX/Fiber Channel 1x single mode (LC) with DMI    | TN-SFP-LX8-Cxxx Series | SM         | MSA           | 80KM         | X          |
| 1000Base-LX single mode (LC) with DMI                     | TN-GLC-ZX-SM Series    | SM         | Cisco         | 80KM - 150KM | X          |
| 10 Gigabit Ethernet                                       |                        |            |               |              |            |
| 10GBase-X, SFP+ with DMI                                  | TN-10GSFP-xRx Series   | MM / SM    | MSA           | 33m - 10KM   |            |
| Simplex   |                        |            |               |              |            |
| Fast Ethernet   |                        |            |               |              |            |
| 100Base-BX single fiber single mode (LC)                  | TN-GLC-FE-100BX Series | SM         | Cisco         | 10KM - 120KM | X          |
| Fast Ethernet / Gigabit Ethernet                          |                        |            |               |              |            |
| OTDR SFP, 1000Base-LX/100Base-FX single fiber single mode | TN-SFP-BC55-x Series   | SM         | MSA           | 40KM         |            |
| Gigabit Ethernet  |                        |            |               |              |            |
| 1000Base-LX single mode (LC) with DMI                     | TN-SFP-LXB Series      | SM         | MSA           | 10KM - 160KM | X          |
| Copper  |                        |            |               |              |            |
| Gigabit Ethernet  |                        |            |               |              |            |
| 1000Base-T (RJ-45)  | TN-SFP-GE-T            |            | Cisco         | 100m         |            |
| Ethernet Extender SFP, 1000Base-X, RJ-45                  | TN-EOT-xx Series       |            | MSA           | 3000m        |            |
| CWDM Modules  |                        |            |               |              |            |
| Mux/Demux   |                        |            | Channels      |              | Enterprise |
| 16 Channel + OSC Duplex LC                                | CWDM-M1631LCR Series   |            | 16            |              | X          |



TN-SFP-BC55-x Series



TN-GLC-LH-SM Series



TN-SFP-OC3M Series



# Contact Us

---

transition@techdata.com | 1-800-237-8931 x82453



North America • Central America • South America  
Europe • Middle East • Africa • Asia • Australia

