

# PRODUCT SPECIFICATION SHEET

**Product Name: Signamax 10/100/1000 Gigabit Switching Media Converter**

| Specifications         |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicable Standards   | IEEE 802.3 10BaseT                                                                                                                                                                                                                                                                                                                                    |
|                        | IEEE 802.3u 100BaseTX                                                                                                                                                                                                                                                                                                                                 |
|                        | IEEE 802.3ab 1000BaseT                                                                                                                                                                                                                                                                                                                                |
|                        | IEEE 802.3z 1000BaseSX                                                                                                                                                                                                                                                                                                                                |
|                        | IEEE 802.3z 1000BaseLX                                                                                                                                                                                                                                                                                                                                |
| Fixed Ports            |                                                                                                                                                                                                                                                                                                                                                       |
| General (SX-065-1196A) | 1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX, & IEEE 802.3ab 1000BaseT standard specifications; Category 5e or better cable, 100 meters maximum distance for 1000BaseT, Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT |
| Plus with SX-065-1196A | 1 fiber optic port meeting IEEE 802.3z 1000BaseSX standard specification; 62.5/125 micron multimode fiber optic cable, 220 meters maximum distance, or 50/125 micron multimode fiber optic cable, 550 meters maximum distance                                                                                                                         |
| Performance            | Latency: < 4.2 $\mu$ s (LIFO)                                                                                                                                                                                                                                                                                                                         |
|                        | Throughput @ 100Base: 148,810 pps (64-byte packets)                                                                                                                                                                                                                                                                                                   |
|                        | Throughput @ 1000Base: 1,488,100 pps (64-byte packets)                                                                                                                                                                                                                                                                                                |
| Fiber Interface        |                                                                                                                                                                                                                                                                                                                                                       |
| Multimode SX-065-1196A | Type: Laser Diode                                                                                                                                                                                                                                                                                                                                     |
|                        | Wavelength: 850 nm nominal                                                                                                                                                                                                                                                                                                                            |
|                        | Maximum Output: - 4.0dBm                                                                                                                                                                                                                                                                                                                              |
|                        | Minimum Output Power: - 9.5                                                                                                                                                                                                                                                                                                                           |
|                        | Sensitivity: -13.5dBm                                                                                                                                                                                                                                                                                                                                 |
|                        | Maximum Input Power: - 13.5                                                                                                                                                                                                                                                                                                                           |
|                        | Link Power Budget: 4.0dB                                                                                                                                                                                                                                                                                                                              |
| LED Indicators         | Per Unit: Power status, RJ-45 100 port speed, RJ-45 1000 port speed, RJ-45 FDX indicator                                                                                                                                                                                                                                                              |
|                        | Per Port: LNK/ACT                                                                                                                                                                                                                                                                                                                                     |
|                        | Six LEDs total                                                                                                                                                                                                                                                                                                                                        |
| Dimensions             | 4.33" L x 3.19" W x 0.91" H [110mm x 81mm x 23mm]                                                                                                                                                                                                                                                                                                     |
|                        | Fiber connector protrusion varies with model.                                                                                                                                                                                                                                                                                                         |
| Weight                 | 0.33 pounds [150 grams]                                                                                                                                                                                                                                                                                                                               |