10/100/1000 Ethernet Media Converter

AUTO NEG | AUTO CROSS | LINK PASS THROUGH | AUTO LINK RESTORE | PAUSE | REMOTE FIRMWARE UPGRADE | SOURCE ADDRESS CHANGE

▸ Extend Network Distance

▸ Bridge legacy 10/100 devices to a Gigabit backbone

▸ Protect critical networks with fiber redundancy

SGFEB1040-140
SGFEB4040-180

Extend Network Distance

10/100 Switch

10/100 Switch

100 meters UTP

100 meters UTP

10/100/1000 Media Converter

up to 125km single mode fiber or 40km single fiber

Gigabit Switch

100 meters UTP

Gigabit Switch

100 meters UTP

10/100/1000 Media Converter

Features

▸ Auto-Negotiation (copper and fiber ports)

▸ Switch Selectable Speeds (UTP) when Auto-Negotiation is off

▸ AutoCross™

▸ Pause

▸ Far End Fault (100Base-FX setting on -180 model port 1 only)

▸ Automatic Link Restoration

▸ Fiber Reduncancy (<50ms switching time)

▸ SGMII support on port 1 for use with 10/100/1000Base-T copper SFPs (-180 model only)

▸ 100/1000Base-X, dual speed support on port 1 for use with 100Base-FX or 1000Base-SX/LX SFPs (-180 model only)

Specifications

Standards	IEEE 802.3™, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3z
Data Rate	**TP (port 1):** 10/100/1000 Mbps (-140 model only) **SFP (port 1):** 100/1000 Mbps (-180 model only) **SFP (port 2,3):** 1000 Mbps
Filtering Addresses	8K MAC Addresses
Max Frame Size	**802.3ac tagged:** 1628 bytes **untagged:** 1632 bytes
Status LEDs	**PWR:** ON green = Power applied to card **TP (Duplex/Link/Activity):** Orange: ON = Half-duplex Link; BLINK = Activity; Green: ON = Full-duplex Link; BLINK = Activity **TP (10Mbs/100Mbs/1000Mbs):** Off = 10Mbs; Orange = 100Mbs; Green = 1000Mbs **LACT (Fiber SFP Link/Activity):** Green: ON = Link; BLINK = Activity
Dip Switches	**Switch 1:** TX - Enable/Disable Auto-Negotiation **Switch 2:** TX - Force 10Mbs or 100Mbs with Switch 1 off **Switch 3:** TX - Force Half or Full duplex with Switch 1 off **Switch 4:** Enable/Disable Fiber Redundancy (port 2/3) **Switch 5:** Enable/Disable primary/secondary revert with Switch 4 on **Switch 6:** Enable/Disable P2 to P3 blocking
Dip Switches	**Switch 1:** Port 1 speed 100Mbs/1000Mbs **Switch 2:** Port 1 duplex full/half **Switch 3:** Port 1 mode 1000Base-X/SGMII **Switch 4:** Enable/Disable Fiber Redundancy (port 2/3) **Switch 5:** Enable/Disable primary/secondary revert with Switch 4 on **Switch 6:** Enable/Disable P2 to P3 blocking
Dimensions	**Width:** 3.25" [82 mm] **Depth:** 4.8" [122 mm] **Height:** 1.0" [25 mm]
Power	External AC/DC required: 12V DC, 1.25 A, unregulated, standard
Power Consumption	6 watts
Environment	0 – 50°C operating, -40°C - 85°C storage 5% – 95% humidity non-condensing, 0 – 10,000 feet altitude
Shipping Weight	2 lb. [0.9 kg]
Regulatory Compliance	CISPR/EN55022 Class A, EN55024, EN61000, FCC Class A, CE Mark
Safety Compliance	**Wall Mount Power Supply:** UL listed & CSA certified
Warranty	Lifetime

Ordering Info

SGFEB1040-140
    10/100/1000BASE-T (RJ-45) **[100 m]**
to (2) 1000BASE-X SFP Slots (empty)

SGFEB4040-180
    100/1000BASE-X SFP Slot (empty)
to (2) 1000BASE-X SFP Slots (empty)

Optional Accessories

(sold separately)

Wide Input (18 – 72VDC) Power Supplies:
SPS-1872-PS or SPS-1872-SA

Mounting Options:

E-MCR-04
    12-slot Media Converter Rack

WMBD
    DIN Rail Mount Bracket 5.0" [127 mm]

WMBL
    Wall Mount Bracket 4.0" [102 mm]

RMS19-SA4-01
    4-slot Media Converter Shelf