10/100 Mbps Miniature Converter

The Fast Ethernet media converters series are designed to bridge a 10/100BASE-T signal to a 100BASE-FX signal. It's used to extend the connection distance between Ethernet Twisted-pair devices via fibre cable transparently with no performance degradation.
The converter series is based on switching hub design. It's supported Auto-negotiation & flow control function on Twisted-pair port. And provided different types of fibre connectors such as SC and ST for multi-mode or single-mode cables.

Key Features

▶ Complies with IEEE802.3u 10BASE-T/100BASE-TX, 100Base-FX Standards.

▶ TP port support Auto-MDIX & Auto-negotiation.

▶ TP port up to 100 metres for shielded/unshielded twisted pair cable.

▶ Supports Full-duplex & Half-duplex operation on TP base on Auto-negotiation.

▶ Switch base design support flow control capability.

▶ Supports Full-duplex & Half-duplex operation on fibre by slide switch.

▶ 100BASE-FX interface for up to 2km. (Use 50/125 µm or 62.5/125 µm MMF optic cable)

▶ 100BASE-FX interface for up to 20 km. (Single-mode 9/125 µm SMF optic cable)

▶ LED indicator supports.

▶ Multiple fibre connector supports. (SC, ST)

▶ Supports fault propagation.

Ordering information

ITEM	CODE
10/100 TX/FX, SC, MM, 2km	LMCS202AE-SC
10/100 TX/FX, ST, MM, 2km	LMCS202AE-ST
10/100 TX/FX, SC, SM, 20km	LMCS203AE-SC20

Specifications

Standards — IEEE 802.3u 10BASE-T/100BASE-TX and 100BASE-FX
Media support —
• 10BASE-T EIA/TIA 568 Cat3, 4, 5, 5e or 6 UTP/STP
• 100BASE-TX EIA/TIA 568 Cat5, 5e or 6 UTP/STP
• 100BASE-FX Multi-mode 50/125 µm & 62.5/125 µm MMF
• 100BASE-FX Single-mode 9/125 µm SMF
Distances support —

• Twisted pair STP 120 metres
• Multi-mode fibre: 415 metres for half-duplex.
• Multi-mode fibre: 5km for full duplex.
• Single-mode fibre: 415 metres for half-duplex.
• Single-mode fibre: 60km for full duplex.
Wavelength — 1310nm on Single-/Multi-mode
Data Transfer Rate —
100Mbps/10Mbps

LED indicators —
• System - power
• Twisted pair port – Link/Activity, Speed and FDX/Col
• Fibre port – Link/Activity & FDX LEDs
Temperature —
• Operating: 0° to 45°C
• Storage: -20° to 90°C
Humidity —
10% to 90% (Non-condensing)
Power consumption —
3.4 Watts (max)

Power Requirement — 5V DC 1A
Certifications —
FCC Class A, CE Mark
Dimensions —
102 x 74 x 22 mm (LxWxH)
Weight — 230g (No power adapter)

1000 Mbps Miniature Converter

Key Features

▶ Complies with IEEE802.3u 1000BASE-T, IEEE802.3z 1000BASE-SX/LX Standards.

▶ TP port support Auto-MDIX & Auto-negotiation.

▶ Up to 50 metres for 1000BASE-T Cat5, 5e or 6 twisted pair cable.

▶ Supports Full-duplex operation.

▶ 1000BASE-SX interface for up to 220 metres. (Multi-mode 62.5/125um MMF optic cable)

▶ 1000BASE-SX interface for up to 550 metres. (Multi-mode 50/125um MMF optic cable)

▶ 1000BASE-LX interface for up to 10km. (Single-mode 9/125um SMF optic Cable)

▶ LED indicator supports.

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Ordering information

ITEM	CODE
1000 T/SX, SC, MM, 220m/550m LMCS212AE-SC
1000 T/LX, SC, SM, 10km LMCS212AE-SC10

Specifications

Standards — IEEE 802.3ab 1000BASE-T/100BASE-T and IEEE802.3z 100BASE-SX/LX

Media support —
• 1000BASE-T Cat5, 5e or 6 UTP/STP
• 1000BASE-SX Multi-mode 50/125um & 62.5/125um MMF
• 1000BASE-LX Single-mode 9/125 µm SMF

Wavelength — 850nm for 1000BASE-SX & 1310nm for 1000BASE-LX

Data Transfer Rate — 1000Mbps @ converter mode

LED indicators —
• System - power
• 1000BASE-T port - Link, FDX & TX LEDs
• Fibre port – Link & RX LEDs

Temperature —
• Operating: 0° to 60°C
• Storage: -20° to 90°C

Humidity —
10% to 90% (Non-condensing)

Power consumption — 4.8 Watts (max)

Power Requirement — 5V DC 1.4A

Certifications —
FCC Class A, CE Mark

Dimensions —
102 x 75 x 22 mm (LxWxH)

Weight — 232g (No power adapter)

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