

**RP-1000SC | RP-1000C1 |
RP-1000C2
1000Base-T to 1000Base-SX/LX
Smart Gigabit Media Converter**



RP-1000 series is a purpose-built media converter designed to establish seamless connections between 1000Base-T and 1000Base-SX/LX fiber media. Equipped with a slide switch, it offers an array of smart functions that can be easily configured. These functions include auto-negotiation/force settings for the fiber interface, ensuring optimal performance and compatibility. Additionally, it incorporates the innovative Link Pass-through function (LLCF/LLR), enhancing network diagnostic capabilities.

The Link Loss Carry Forward (LLCF) function, in conjunction with Link Loss Return (LLR), facilitates network connection diagnosis. If there is a problem with the link media, the LLR function triggers an immediate LED caution light, drawing the attention of network administrators. This efficient solution helps monitor the network and minimize losses caused by link issues.

RP-1000 series offers versatile deployment options to cater to various networking environments. It can be used as a standalone unit, providing convenient connectivity for individual devices. Alternatively, it can be seamlessly integrated as a slide-in module within the 19" converter rack RP-MCR116, enabling efficient management in central wiring closets. Moreover, the hot-swappable nature of these converters, when used with the chassis, ensures convenient maintenance without interrupting network operations, reducing downtime and enhancing overall network reliability.

Features

- Compliant with IEEE 802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet Standards
- Provides one 1000Base-T port, one 1000Base-SX/LX port supporting either multi-mode or single-mode fiber up to 20Km
- Supports Full Duplex and Auto-negotiation mode for Fiber port
- Front panel diagnostic LED indications
- Support LLCF (Link Loss Carry Forward, Link Pass Through)
- Support LLR (Link Loss Return) for Fiber port
- Provides 19" system chassis for up to 16-converter with Redundant Power Supply for optional expansion use

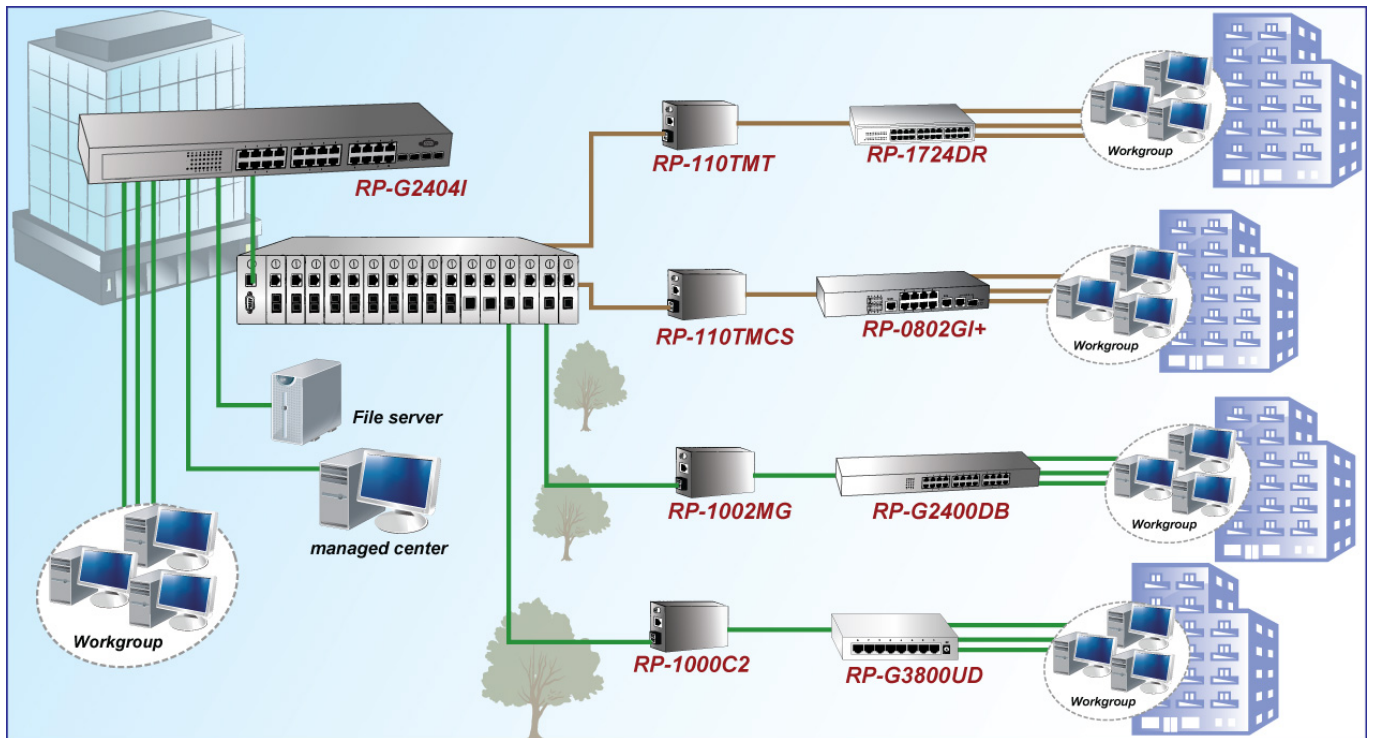
Management Features

- Supports LLCF (Link Loss Carry Forward, Link Pass Through)
- Supports LLR (Link Loss Return) for FX port
- Monitor the status of duplex/link for both media via management module MOD-MCSNMP through Media Converter chassis System (RP-MCR116)
- Set duplex force, LLCF on/off, LLR on/off for FX, ports on/off via the MOD-MCSNMP through RP-MCR116
- Provides link down source port information

Specifications

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|---------------------------|--------------------|---|
| Standards | | <ul style="list-style-type: none"> • IEEE 802.3ab 1000Base-T • IEEE 802.3z 1000Base-SX • IEEE 802.3z 1000Base-LX |
| Interface | | <ul style="list-style-type: none"> • 1*1000Base-T with RJ45 connector • 1*1000Base-SX/LX with SC connector |
| Media Support | 1000Base-T | <ul style="list-style-type: none"> • 4 pair Cat.5e or higher, EIA/TIA-568 100-ohm twisted-pair cable, up to 100m |
| | 1000Base-SX | <ul style="list-style-type: none"> • 50/125µm multi-mode fiber optic cable, up to 550m |
| | 1000Base-LX | <ul style="list-style-type: none"> • 9/125µm or 10/125µm single-mode fiber optic cable, up to 20km |
| Protocol | | <ul style="list-style-type: none"> • CSMA/CD |
| Ports | | <ul style="list-style-type: none"> • 1 * 1000Base-T with RJ-45 connector • 1 * 1000Base-SX/LX with SC connector |
| Data Transfer Rate | | <ul style="list-style-type: none"> • 2000Mbps (Full Duplex) |
| Dip Switch | | <ul style="list-style-type: none"> • Auto-negotiation or Manual for FX • LLR enable or disable for FX |
| LED Indicators | | <ul style="list-style-type: none"> • Per unit: Power • Per port: Link/Activity |
| Power Consumption | | <ul style="list-style-type: none"> • 2.7W |
| Power Supply | | <ul style="list-style-type: none"> • External power Adapter DC 5V/1A 9V/700mA |
| Environment | | <ul style="list-style-type: none"> • Operating Temperature: 0°C~40°C • Operating Humidity: 10%~90% |
| Dimension | | <ul style="list-style-type: none"> • 120 * 88 * 25 mm |
| Certification | | <ul style="list-style-type: none"> • FCC, CE |

Application



Ordering information

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| RP-1000SC | 1000Base-T to SX Smart Gigabit Media Converter, MM/SC |
| RP-1000C1 | 1000Base-T to LX Smart Gigabit Media Converter, SM/10 Km |
| RP-1000C2 | 1000Base-T to LX Smart Gigabit Media Converter, SM/20 Km |

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