



Datenblatt - Fiche technique - Data sheet

**21.13.1070**



ROLINE Fast Ethernet Konverter RJ-45 - ST, Loop-back

ROLINE Convertisseur Fast Ethernet RJ45/ST, Loop-back

ROLINE RC-100FX/ST Fast Ethernet Converter, RJ-45 to ST, Loop-back

# 21.13.1070, 21.13.1071



## 10/100Base-TX to 100Base-FX Media Converters

### Product Highlights:

- Full wire speed performance
- Comprehensive configuration options
- Loop back test support
- Remote TP link monitoring
- Low power consumption
- Loop back test support
- Optional Din-Rail mounting
- Center Chassis installation support
- Options for Bi-Di communication
- Options for CWDM

The media converters are designed to convert 10Base-T or 100Base-T signals to/from 100Base-FX fiber signals. It is used to extend the connection distance between two Ethernet devices via fiber cable transparently with no performance degradation. The media converters not only support existing variety of multimode and single mode fibers but also support Bi-Di WDM and CWDM fiber network applications. It is also featured with design to support center chassis installation with optional power redundancy and management features when a larger fiber network is required.

### Key Features:

- Convert speed and media type in full wire speed
- Support 10/100M dual speed on TP connections, auto-negotiation, and auto-MDI/MDI-X detection
- Link fault pass through function
- Transparent to 802.1Q VLAN tagged packets
- Far End Fault function on FX port
- Support desktop, wall, and DIN-rail mounting
- Support center chassis installation
- Low power consumption
- Support wide range of fiber options
- Provide user accessible settings for TP port configuration, disabling link fault pass through function

### Specifications:

TP Port	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX Shielded RJ-45 jacks with Auto MDI/MDI-X detection Auto-negotiation for speed and duplex auto detection Forced mode with speed and duplex settings Speed for 10Mbps or 100Mbps, Full-duplex or half-duplex support
FX Port	IEEE 802.3u 100Base-FX compliant Forced 100Mbps, Full duplex (factory default) Far end fault Function
Cable	Cat. 5 UTP cable, MMF - 62.5/125 $\mu$ m, 50/125 $\mu$ m
LEDs	TP Ports: Link/Act, Speed, Duplex status FX Ports: Link/Act status, Fiber signal detected



Configuration Switches Accessible settings:  
 NC-300D - TP mode, TP duplex, TP speed, Link fault pass through  
 NC-300DM - TP mode, TP duplex, TP speed, Link fault pass through,  
 Auto status report

Packet Size Up to 1522 bytes for store-and-forward mode  
 No packet size limit for smart-forward mode (100-to-100)

Environment Operating Temperature: -5°C ~ 50°C  
 -20°C ~ 60°C (NC-300D-EC, NC-300DM-EC)  
 Storage Temperature: -20°C ~ 80°C  
 Relative Humidity: 5% ~ 95% non-condensing

Weight NC-300D: 210g, NC-300DM: 213g

Dimension 108 x 72.5 x 23 mm (WxDxH)

Operating voltage +5V ~ +12VDC (+/-5%) (Device DC Input)

Power Consumption 2 watts. (max.)

Approval FCC class B, CE class B

### Ordering Informations:

	Fiber Mode	Connector	Ref. Distance
21.13.1070	MM	Dual ST	2km
21.13.1071	MM	Dual SC	2km

MM: Multimode Fiber

Ref. Distance: Reference connection distance

### Optical Specifications: NC-300D-X, NC-300DM-X

Model	Connector	Fiber	Wavelength	Tx Power	Rx Sens.	Rx Max.
21.13.1070	ST Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
21.13.1071	SC Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm

MMF: Multimode fiber -62.5/125 μm, 50/125 μm



FCG Part 15, Class B  
 CISPR 22 Class B