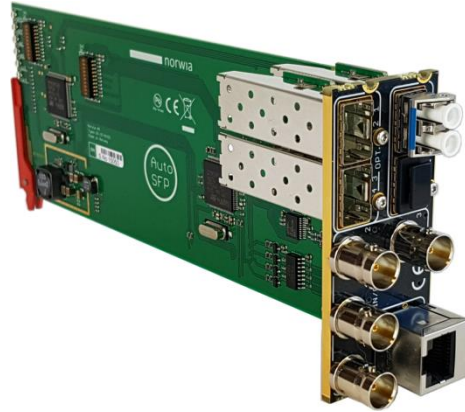


# OC-1T-R422

Optical Converter for transporting RS422 / RS232 and GPIO

## Data Sheet



### Description

The OC-1T-R422 module is an optical converter intended to carry low-frequency signals such as Tally/GPIO and RS422/RS232 signals over fiber. It supports serial bitrates between 9.6kbit/s and 115.2kbit/s. The GPIO ports can be configured as either input or output. The module also has a built-in RS422 to RS232 converter when needed.

### Features

- 2 independent RS422/RS232 links
- Built-in RS422 to RS232 converter
- Up to 4 Tally/GPI inputs or outputs
- LEDs show GPIO status
- Selectable GPIO signal direction
- SFP based optical interface

### Part Number Options

Part Number	Temperature *)
OC-1T-R422	0°C to +45°C

\*) Rated temperature for the complete miniHUB.

### Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which functional performance is not intended, device reliability is not implied, and damage to the device may occur.

Parameter	Minimum	Maximum	Unit
Storage temperature (non-operating)	-40	+85	°C
Relative Humidity (non-condensing)	5	95	%

## General Operating Conditions

Parameter	
Control	2x 10 way DIP switch for settings and web control via miniHUB frame controller
LEDs	Card status, GPIO status. Optical
Number of RS422/RS232	2
Number of GPIO	Up to 4, depending on backplane type
Connector RS422/RS232	RJ45
Connector GPIO	RJ45
Connectors fiber	SFP cage (SFP transceiver holds the fiber connector)

## RS422/ RS232 Electrical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Number of serial connections	2			
Connector type	RJ45			
Communication formats (selectable)	RS422 and RS232			
Bitrate	9k6		115.25	kbit/s

## GPIO Electrical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Number of GPIO connections (depending on backplane type)	1 or 4			
Connector type	RJ45			
Signal direction	Selectable			
Output configuration	Open Collector with Close Contact to 0V (chassis)			
Max output voltage connection (with no drive)			10	V
Max output current			500	mA
Input configuration	Close contact to 0V (chassis)			
Max input voltage			10	V

## Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Type	SFP, MSA and non-MSA transceiver			
Compatible types	Any Norwia ND12- or NV30- transceiver types			

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