

Product Description

Neton's 2412TZ Receiver optical fiber devices, combined with 1414XX and 850nm multi-mode optical fiber, provide high performance and low cost optical fiber communication links for industrial, power generation, medical, transportation, and game applications. The 1414XX is driven by 60 mA current with a minimum transmission distance of 2500 meters.

The 2412 TZ Series supports industrial standard ST fiber ports with threaded options. 2412 For a variety of fiber core diameter, including 50/125 μ m, 62.5/125 μ m, 100 / 140 μ m and 200 μ m.

The 2412 TZ series is a receiver, consisting of a high-gain span resistance amplifier with an integrated photodiode. The output stage is an open-leakage MOSFET structure.



Product Features

- Data transfer rate: DC-5MBd
- Minimum transmission distance: 2500 m
- The output waveform pulse width is stable
- Compliance the RoHS criteria
- Power supply support is + 5V
- ST connector with thread
- Operating temperature range (Industrial: -40°C to +85°C)

Order information

Type	Fiber type	wavelength (nm)	interface type
2412TZ	MM	850	Receive, ST with thread

Contact us now for more information:

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DC-5MBd Receiver Module

2412TZ

Application

- Factory automation
- Industrial networks and the fieldbus
- Audio and video applications / game applications

Absolute Maximum Ratings

Table 1--- Absolute Maximum Conditions

Parameter	Symbol	Min	Max	Units	Note
Storage Temperature	Ts	-55	+85	°C	-
Operating Temperature	Ta	-40	+85	°C	-
supply voltage	VCC	-0.5	7	V	-
Fan out capability (TTL)	N	-	5	-	-
Soldering temperature(electric-soldering-iron)	-	-	350	°C	-
Soldering duration(electric-soldering-iron)	-	-	5	Sec	-

Table 2--- 2412TZ Receiver Optical Characteristics

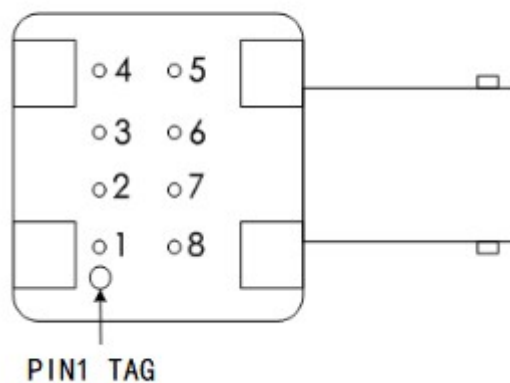
(Ambient Operating Temperature Ta=+25±5°C, VCC = 5.0±0.2V)

parameter	Symbol	Min	Typ	Max	Units	Note
Peak wavelength	λ	-	850	-	nm	
Data rate	DR	DC	-	5	MBd	
Receiver Sensitivity	P _{RL}	-28	-	-1	dBm	T=25°C, IO L=8m A
		-27	-	-2	dBm	I _{OL} =8m A
Input power at the output of 1	P _{RH}	-	-	-35	dBm	V _{OL} =5V
Output current at the high output level	I _{OH}	-	5	250	μ A	V _O =5V ,PR=0
Output voltage at low output	V _{OL}	-	0.3	0.4	V	I _{OL} =8mA, PR=PRLmin
Power supply current at high output	I _{CCH}	-	5.2	6	mA	VCC=5V ,PR=0
Output the power supply current at a low level	I _{CCL}	-	5.5	6	mA	VCC=5V ,PR=-16d B m.5

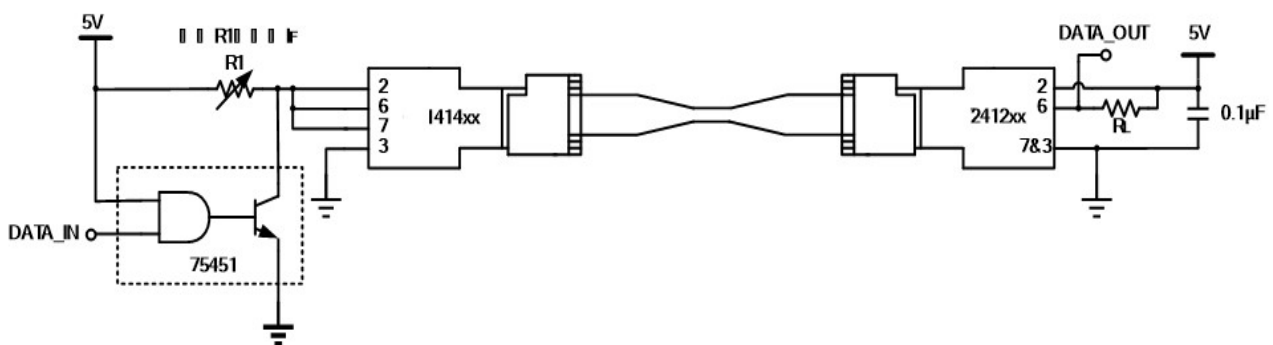
Receiver Pin Definitions

Pin #	Pin Name	Description
1	NC	NC
2	V CC	power supply
3	GND	Ground
4	NC	NC
5	NC	NC
6	V O	TTL output
7	GND	Ground
8	NC	NC

Bottom VIEW



Typical application diagram



Outline dimension drawing of ST interface with thread (2412 TZ) unit: mm

