



BIDI SFP transceiver modules with DDM function

125Mb/s to 1.25Gb/s and 2.5Gb/s



RTXM182 DDM Series

Features

- Single LC receptacle optical interface compliant
- Single +3.3V power supply
- Hot-pluggable
- Receiver Loss of Signal Output
- AC coupling of PECL signals
- Serial ID module on MOD(0-2)
- International Class 1 laser safety certified
- Transmitter disable input
- Distance up to 15km
- Operating temperature range:
-5 °C ~+75 °C/-40 °C ~+85 °C
- Compliant with RoHS&WEEE

Applications

- Fast Ethernet/Gigabit Ethernet
- Gigabit Fiber Channel
- Switch to switch interface
- Switched backplane applications
- SDH/SONET

Standards

- Compliant with SFP MSA (INF-8074i)
- Compliant with IEEE802.3ah
- ITU-T G.957 S-1.1
- Compliant with RoHS&WEEE

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	T _s	°C	-40	+85
Relative Humidity	RH	%	5	95
Power Supply Voltage	V _{cc}	V	-0.5	+4

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	T _c	°C	-40		85
Power Supply Voltage	V _{cc}	V	3.135	3.3	3.465
Data rate		Mb/s	-	125/1250	-



RTXM182 DDM Series(V1.1)

	3050B US EPA METHOD 3052 US EPA METHOD 3060A	Hg <1000ppm PBB <1000ppm PBDE <1000ppm Cd <100ppm
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1 (>1.5kV) – Human Body Model
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	Class 2(>4.0kV)
Electromagnetic Interference (EMI)	CISPR22 ITE Class B FCC Class B CENELEC EN55022 VCCI Class 1	Compliant with standard
Immunity	IEC61000-4-3 Class 2	Typically show no measurable effect from a 3 V/m field swept from 80 to 1000MHz applied to the transceiver without a chassis enclosure.
Safety	FDA CDRH 21-CFR 1040 Class 1	
	UL	
	TUV-GS	
	CE	

Ordering Information

Part No	Specification									Application Code
	Package	Data rate	Laser	Optical Power	Detector	Sensitivity	Temp	Reach	Other	
RTXM182-405	SFP	155M	1310nm FP-LD	-14 ~ -8dBm	PIN 1550nm	-31dBm	-5~75°C	15km	DDM,RoHS	
RTXM182-406	SFP	155M	1550nm DFB-LD	-14 ~ -8dBm	PIN 1310nm	-31dBm	-5~75°C	15km	DDM,RoHS	
RTXM182-525	SFP	155M	1310nm FP-LD	-14 ~ -8dBm	PIN 1550nm	-31dBm	-40~85°C	15km	DDM,RoHS	
RTXM182-526	SFP	155M	1550nm DFB-LD	-14 ~ -8dBm	PIN 1310nm	-31dBm	-40~85°C	15km	DDM,RoHS	
RTXM182-801	SFP	155M	1310nm FP-LD	-5~ 0dBm	PIN 1550nm	-31dBm	-40~85°C	40km	DDM,RoHS	
RTXM182-802	SFP	155M	1550nm DFB-LD	-5~ 0dBm	PIN 1310nm	-31dBm	-40~85°C	40km	DDM,RoHS	
RTXM182-425	SFP	1.25G	1310nm FP-LD	-9 ~ -3dBm	PIN 1490nm	-22dBm	-5~75°C	15km	DDM,RoHS	
RTXM182-426	SFP	1.25G	1490nm DFB-LD	-9 ~ -3dBm	PIN 1310nm	-22dBm	-5~75°C	15km	DDM,RoHS	
RTXM182-525	SFP	1.25G	1310nm FP-LD	-9 ~ -3dBm	PIN 1490nm	-22dBm	-40~85°C	15km	DDM,RoHS	
RTXM182-526	SFP	1.25G	1490nm DFB-LD	-9 ~ -3dBm	PIN 1310nm	-22dBm	-40~85°C	15km	DDM,RoHS	
RTXM182-827	SFP	1.25G	1310nm FP-LD	-3~ 2dBm	PIN 1490nm	-24dBm	-5~75°C	40km	DDM,RoHS	



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RTXM182-828	SFP	1.25G	1490nm DFB-LD	-3 ~ 2dBm	PIN 1310nm	-24dBm	-5~75°C	40km	DDM,RoHS	
RTXM182-829	SFP	1.25G	1310nm FP-LD	-3~ 2dBm	PIN 1490nm	-24dBm	-40~85°C	40km	DDM,RoHS	
RTXM182-830	SFP	1.25G	1490nm DFB-LD	-3 ~ 2dBm	PIN 1310nm	-24dBm	-40~85°C	40km	DDM,RoHS	
RTXM182-831	SFP	1.25G	1490nm DFB-LD	-2~4dBm	PIN 1570nm	-26dBm	-40~85°C	80km	DDM,RoHS	
RTXM182-832	SFP	1.25G	1570nm DFB-LD	-2 ~ 4dBm	PIN 1490nm	-26dBm	-40~85°C	80km	DDM,RoHS	
RTXM182-675	SFP	2.5G	1310nm FP-LD	-5~2dBm	PIN 1490nm	-19dBm	-40~85°C	15km	DDM,RoHS	
RTXM182-676	SFP	2.5G	1490nm DFB-LD	-5~ 2dBm	PIN 1310nm	-19dBm	-40~85°C	15km	DDM,RoHS	

Consultation

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