

Data Sheet(Optic analog Module Series)

ITOM-S0065-1870-DND42 / RRD42

Electrical Specification

Parameters		Unit	Min	Max	Remark
Optical output power		dBm	2	6	Donor, Remote
Wave length		nm	1540	1560	Donor
		nm	1300	1320	Remote
Frequency		MHz	1705	1705	DL
			1860	1870	
		MHz	65	75	UL
			1770	1780	
RF Gain		dB	-2	+2	DL, UL
Flatness		dB(p-p)		1	
VSWR				1.5	S11/S22
IP3 (0dBm / TONE)		dBc	28		
Output noise floor		dBm/Hz		-132	
Directivity		dBc	60		
Alarm	LD	dBm	-5		Normal : High(+5V) TTL
	PD	dB0	-12		
Current	12V	mA	300	350	Donor
Gain Variation		dB	-3	3	
Operating Temperature		-20℃ ~ +70℃			
Optic Connector		SC/APC			
RF Connector		SMA Female			

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Pin Map

1. Donor

89096-102 10Pin Connector Configurations			
1	VCC(+12V)	6	NULL
2	TX-Data(Modem)	7	GND
3	RX-Data(Modem)	8	GND
4	LD-ALARM	9	GND
5	PD-ALARM		

2. Remote

SD-MOLEX-15A Connector Configurations			
1	TX-Enable	6	NULL
2	GND	7	LD ALARM (TTL, Normal High)
3	VCC (+12V)	8	NULL
4	TX-Data(Modem)	9	PD ALARM (TTL, Normal High)
5	RX-Data(Modem)		

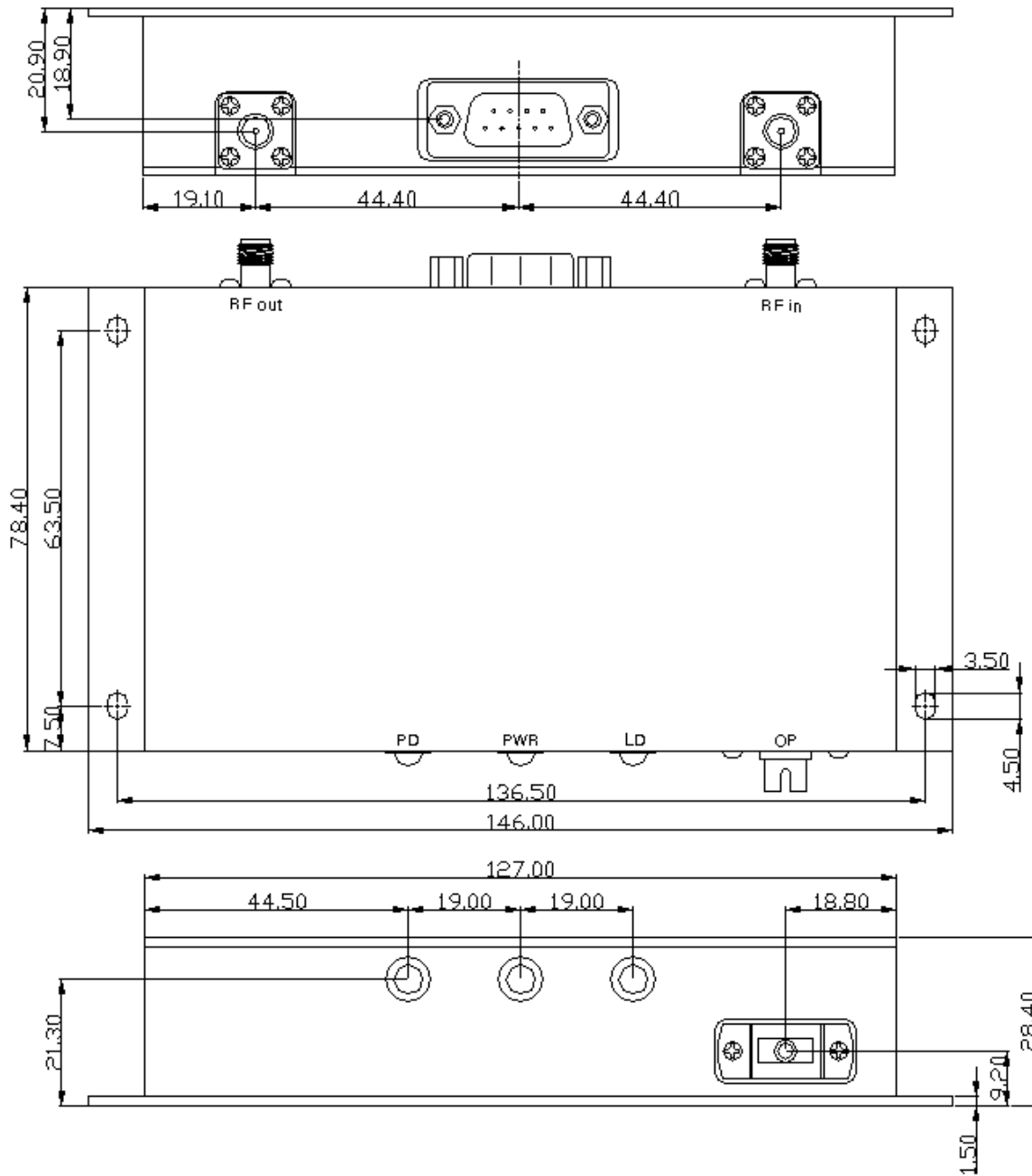
- Modem EN : High(+5V) = Alarm, Low = Normal.
- Modem Frequency : FSK 46MHz(Tx), 36MHz(Rx) /ASK 20MHz
- Data Rate: 38400bps

Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		7	dBm
RF Input Power		10	dBm
DC Supply Volts		13	V
Operating Temperature		-20 ~ +70	°C

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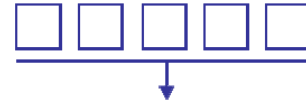
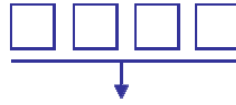
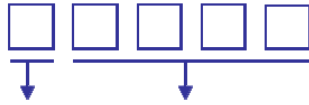
Mechanical Specification



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Ordering Information

ITOM



Model	Start Frequency
S - Single band	0001 - 1MHz
M - Multiband	0002 - 2MHz
B - Broadband	.
T - CATV	.
C - Customized	3000 - 3000MHz

End Frequency
0001 - 1MHz
0002 - 2MHz
.
.
3000 - 3000MHz

Type	LD Type	Optic Connector	Wave length
DN - Donor	F - FP	1 - FC/UPC	1 - 1Wave
RR - Remote	D - DFP	2 - FC/APC	2 - 2Wave
TR - Transmitter		3 - SC/UPC	3 - 3Wave
RE - Receiver		4 - SC/APC	4 - 4Wave
R1 - Remote1		5 - LC/UPC	C - Customized
R2 - Remote2		6 - LC/APC	
R3 - Remote3		C - Customized	

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