



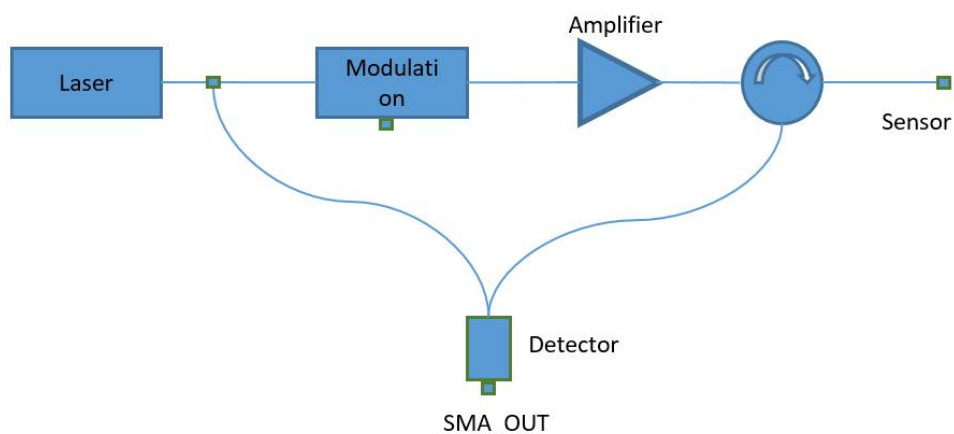
Technical Specifications

Model No.	BG-DAS-40km-CN1-09SM-1m-FC/APC
Product Name	DAS Transceiver Module
Technical File	BG.11.0348-000_SPEC
Version	V1.0

1. Optical Specifications

Parameter	Min	Typ.	Max	Unit	Remark
Sensing Distance		20	40	km	
Warm up Time			15	Min	
UNL/EDFA					
Central Wavelength	1549.97	1550.12	1550.42	nm	
Linewidth	-	-	3	KHz	SM laser
Pulse Width	60	100	-	ns	
Repetition Frequency	-	10	20	KHz	
Pulse Peak Optical Power		23	30	dBm	
AOM					
Rise/Down Time	-	-	30	ns	Driver built-in
Input Impedance		50		Ohm	
Shift Frequency		80		MHz	
BPD					
Wavelength	800~1700			nm	
Gain	30K			V/A	
Coupling Mode	AC				
Bandwidth of Output Signal	100			MHz	
Detecting Channel	Single-channel				
Modulation Mode	External Modulation				

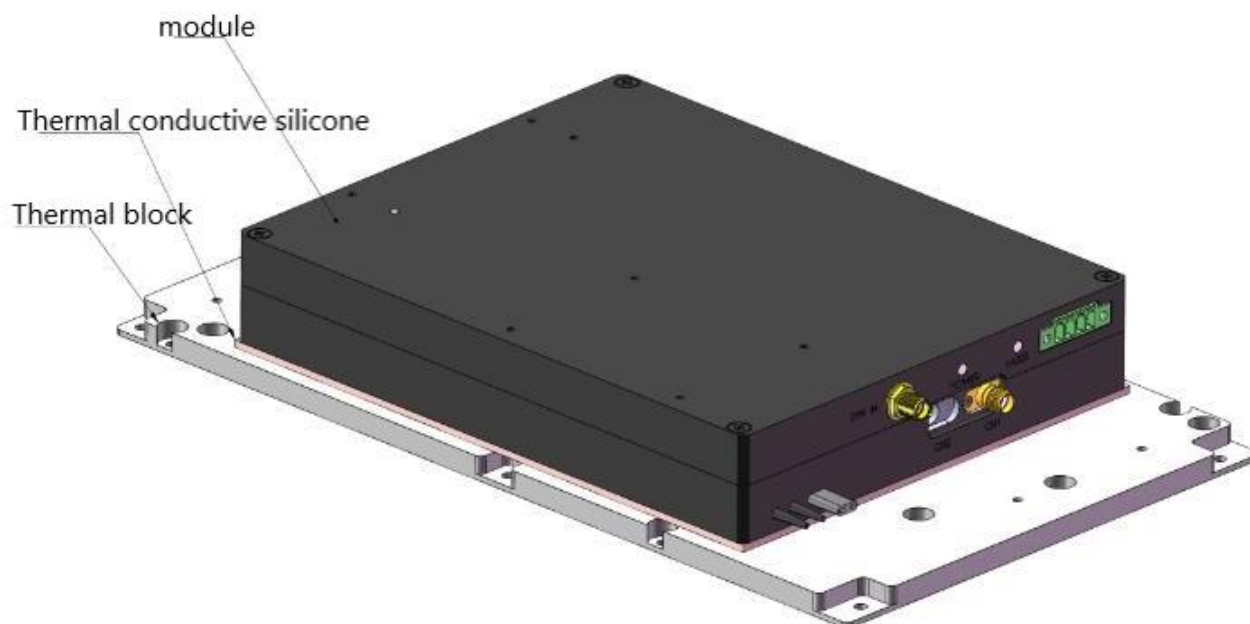
2. Optical Structure



3. Working Environment

Parameter	Min.	Typ.	Max.	Unit
Working Temperature Range	-15	25	55	°C
Storage Temperature Range	-20	-	70	°C
Relative Humidity	5	-	95	%
Working Humidity Range	10	-	95	%

Note 1: With high and low temperature without wind environment, the unit can working normally for 2h.

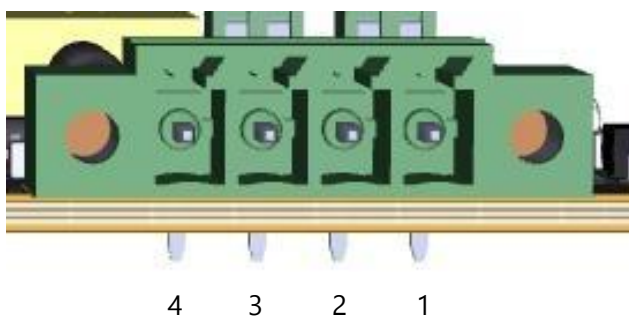


4. Electrical Specifications

Parameter	Min.	Typ.	Max.	Unit
Power Supply	11.4	12	12.6	V
Power Consumption	-	-	30	W
Working Current	-	1.5	2.5	A

5. Connector Type

Connector Mode: 691325310004, 4 pin/3.81 spacing/Female connector



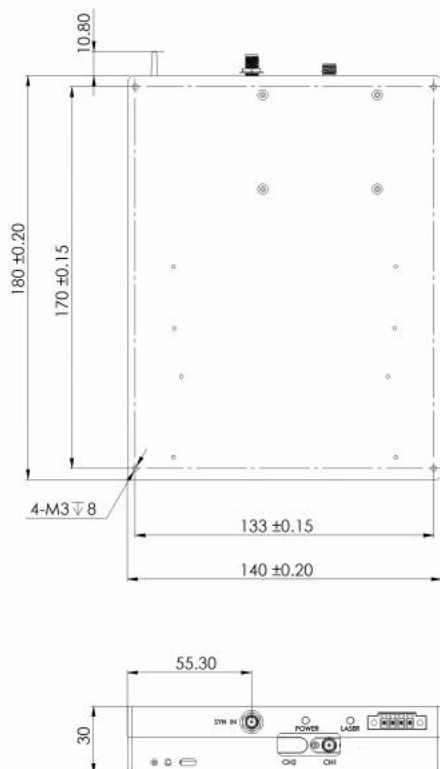
Communication Interface: RS232

Pin Definition:

Pin	Name	Attribute	Color	Electric Level	Description
1	VCC		Red		+12V Positive pole of power
2	GND		Black		+12V GND
3	TXD	O	Red	RS_232	RS232 Communication emitter
4	RXD	I	Yellow	RS_232	RS232 Communication receiver

6. Mechanical Structure

Dimensions: L*W*H: 180*140*30mm



7. Pigtail

Items	Specifications
Fiber Type	900um Cable
Pigtail Length(mm)	1000±10
Fiber Color	White
Connector Type	FC/APC

8. Interface

Interface	Label	Description	Interface Type
Electrical	DC +12V	DC +12V power supply	Red high temperature resistant silver plated wire
	GND	DC power GND	Black high temperature resistant silver plated wire
Communication	RS232	Serial communication	Female
LED Indicator	LASER	Pulse laser status indicator	Green Normal/Red Abnormal
	POWER	Power indicator	Green on is normal/Green off is abnormal
Modulation Input	SYN IN	Pulse modulation input TTL high resistance	SMA, Female
Fiber Interface	Sensor	Connect to sensing fiber	1000±10mm; 900um pigtail, FC/APC
SMA Interface	CH1	Signal output; 50 Ω ; AC coupling	SMA, Female


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