EWM108-GN06B Series Product Specifications

BDS domestic single-mode multi-frequency satellite positioning and navigation module



Chengdu Ebyte Electronic Technology Co.,Ltd.

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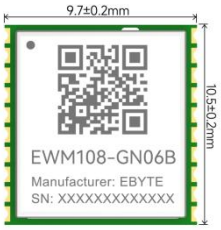
Chapter 1 Product Overview

1.1 Product Introduction

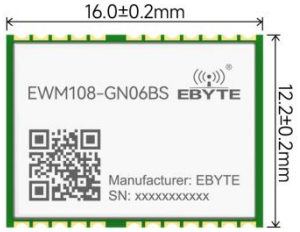
The EWM108-GN06B series single Beidou module is based on Zhongkewei's new generation SOC single Beidou multi-frequency chip AT9880B, supporting B1I, B1C, B2I, B3I, B2a and B2b frequency signals of Beidou-2 and Beidou-3.

Based on the proprietary fast satellite search technology, the EWM108-GN06B series module can quickly receive a large number of visible satellite signals to achieve fast and accurate positioning, especially significantly improving the positioning performance in complex environments such as urban canyons. With the integration of high-performance embedded CPU, the positioning update rate can reach 10Hz.

The EWM108-GN06B series module integrates a proprietary anti-interference hardware acceleration circuit, which can quickly detect and suppress RF interference. It also integrates a high-precision timing engine with a timing accuracy better than 10ns, which is suitable for timing and positioning applications in the fields of power, 4G/5G communications, etc. It uses a new navigation integrated SOC single-chip technology to meet the application of high-precision positioning and high-precision timing, and has the characteristics of high integration, high performance, low power consumption, and small size. It can be used in application fields such as wearable devices, mobile phones, IoT devices, drones, smart driving, precision agriculture, precision measurement, and power communication equipment.



EWM108-GN06B



EWM108-GN06BS

1.2 Features

- Multi-frequency single Beidou reception;
- Support BeiDou-2 and BeiDou-3;
- Support B1I, B1C, B2I, B3I, B2a, B2b;
- Support B1C independent positioning;
- Number of channels: 176 channels;
- The maximum positioning update rate can reach 20Hz;
- Support A-BDS;
- Support power management;
- Typical power consumption of dual-frequency continuous operation: <50mA (@3.3V);
- Typical standby power consumption: <50uA (@3.3V);
- Built-in antenna detection and antenna short circuit protection function.

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1.3 Application Scenario

- Vehicle positioning and navigation;
- Power timing, 4G/5G communication timing;
- Wearable devices;
- IoT positioning devices;
- Drones;
- Precision agriculture;
- Portable devices such as mobile phones and tablets.

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Chapter 2 Specifications

2.1 Working Parameters

Main parameters	performance			Remark
	Minimum	Typical Value	Maximum	
Operating voltage (V)	2.7	3.3	3.6	Over 3.6V may burn the module
Communication level (V)		3.3		use 5V TTL has the risk of burning out
Operating temperature (℃)	- 40	-	+85	Industrial-grade design
Storage temperature (℃)	- 40	-	+125	
Humidity (%RH)	5	-	-95	No condensation

2.2 Hardware Parameters

Main parameters		describe	Remark
Baud rate (bps)		4800~460800	Default 115200bps
Data bits		8bit	-
Stop bits		1	-
Communication interface		UART	-
Packaging		SMD	-
EWM108-GN06B Dimensions		9.7*10.5*2.4mm	±0.2mm
EWM108-GN06BS Dimensions		12.2*16.0*2.4mm	
Antenna interface		Stamp Holes	-
Communication Protocol		Support NMEA0183 V4.10 and previous versions	-
Positioning update rate		1Hz (default)	The maximum positioning update frequency can reach 20Hz
Supported positioning systems		BDS	B1I, B1C, B2I, B3I, B2a, B2b
Product Weight	EWM108-GN06B	0.5g	±0.1g
	EWM108-GN06BS	0.9g	

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2.3 GPS performance parameters

category	Indicator	Typical Value	unit
Positioning time (test condition 1)	Cold Start	≤23	s
	Hot Start	≤1	s
	Recapture	≤1	s
Sensitivity (Test Condition 2)	Cold Start	-148	dBm
	Hot Start	-156	dBm
	Recapture	-160	dBm
	track	-162	dBm
Accuracy (Test Condition 3)	Horizontal positioning accuracy (static)	<1.0	m
	Speed positioning accuracy	<0.05	m/s
	Timing accuracy	10	ns
Power consumption (test condition 4)	EWM108-GN06B capture current	41	mA
	EWM108-GN06BS capture current	37	
	EWM108-GN06B Tracking Current	52	mA
	EWM108-GN06BS Tracking Current	48	
	EWM108-GN06B Sleep Current	48	uA
	EWM108-GN06BS Sleep Current	49	

[Test condition 1] : The number of received satellites is greater than 6 , the signal strength of all satellites is -130dBm , the average value is taken after 10 tests , and the positioning error is less than 10 meters.

[Test Condition 2] : External LNA noise coefficient 0.8 , number of received satellites greater than 6 , received signal strength value under lock or no loss of lock conditions within 5 minutes.

[Test condition 3] : Open and unobstructed environment, 24 hours of continuous power-on test, 50% CEP .

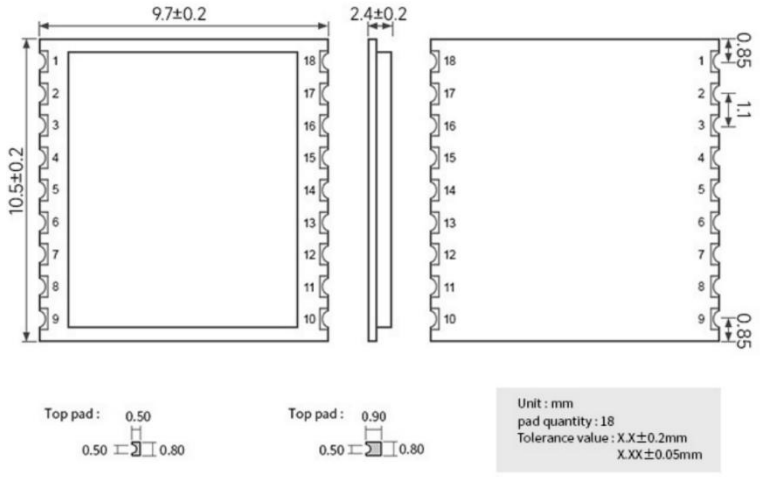
[Test condition 4] : The number of received satellites is greater than 6 , and the signal strength of all satellites is -130dBm .

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Chapter 3 Mechanical Dimensions and Pin Definition

3.1 EWM108-GN06B Pin Definition

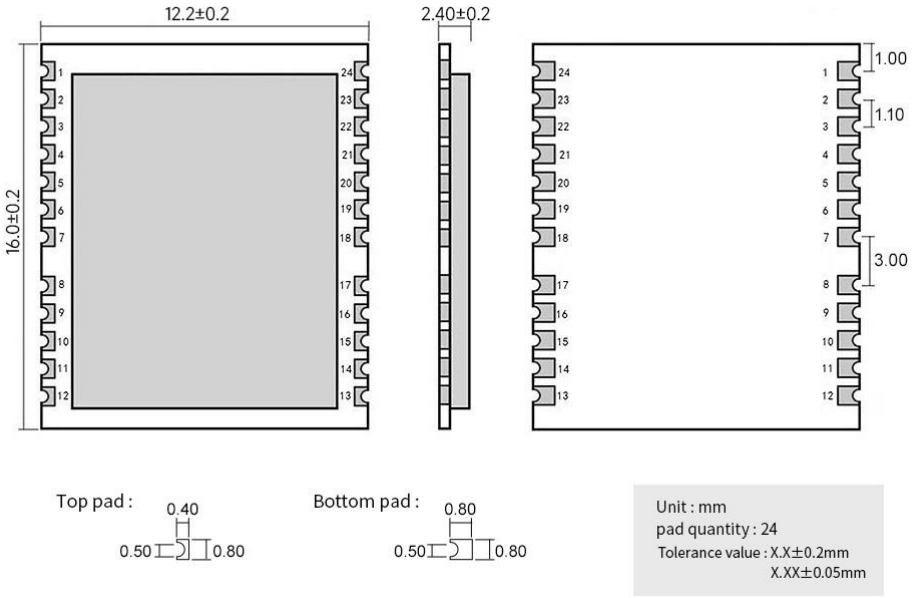


Pin number	Pin Name	Pin Direction	Pin Purpose
1	GND	-	Module Ground
2	TXD	Output	Serial port output, 3.3V level
3	RxD	Input	Serial port input, 3.3V level
4	1PPS	Output	1 Pulse Per Second
5	ON_OFF	Input	Sleep control pin, module shutdown control, low level is effective
6	VBAT	Input	RTC and SRAM backup power supply, power supply range: 1.5~3.6V power supplyEnsure module hot start
7	NC	-	-
8	VCC	Input	Module power supply, power supply range: 2.7V-3.6V
9	RESET_N	Input	Reset pin, external reset input, internal pull-up, must be left floating if not used
10	GND	-	Module Ground
11	RF_IN	Input	Antenna interface
12	GND	-	Module Ground
13	NC	-	-
14	VCC_RF	Output	RF power output, +3.3V, used for active antenna power supply
15	NC	-	-
16	NC	-	-
17	NC	-	-
18	NC	-	-

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3.2 EWM108-GN06BS Pin Definition



Pin number	Pin Name	Pin Direction	Pin Purpose
1	NC	-	-
2	NC	-	-
3	1PPS	Output	1 Pulse Per Second
4	NC	-	-
5	NC	-	-
6	NC	-	-
7	NC	-	-
8	RESET_N	Input	Reset pin, external reset input, internal pull-up, must be left floating if not used
9	VCC_RF	Output	RF power output, +3.3V, used for active antenna power supply
10	GND	-	Module Ground
11	RF_IN	Input	Antenna interface
12	GND	-	Module Ground
13	GND	-	Module Ground
14	NC	-	-
15	NC	-	-
16	NC	-	-
17	NC	-	-
18	NC	-	-
19	NC	-	-
20	TXD	Output	Serial port output, 3.3V level
21	RXD	Input	Serial port input, 3.3V level
22	VBAT	Input	RTC and SRAM backup power supply, power supply range: 1.5~3.6V

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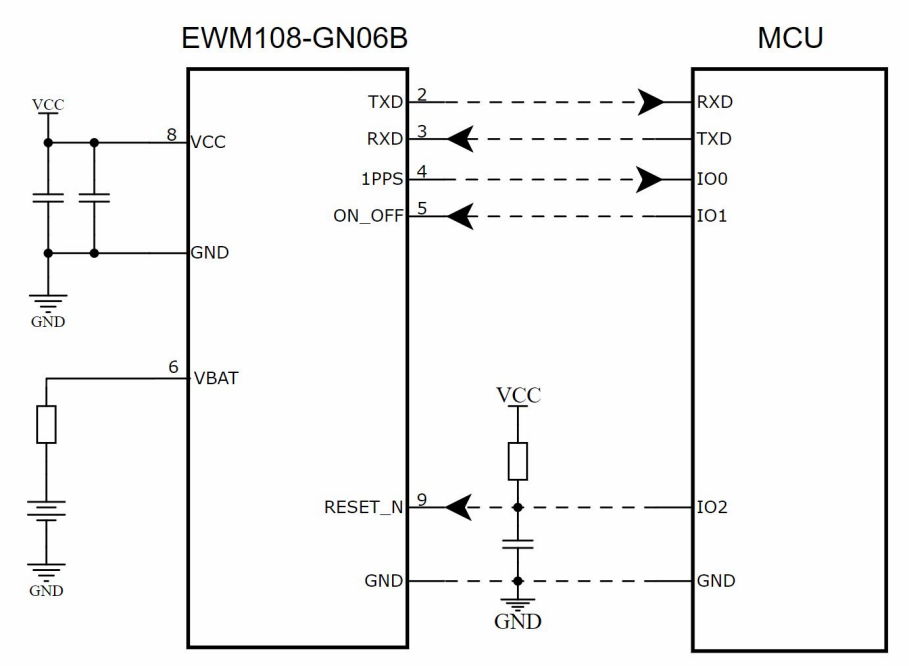
			power supply;Ensure module hot start
23	VCC	Input	Power supply pin, power supply range: 2.7V-3.6V
24	GND	-	Module Ground

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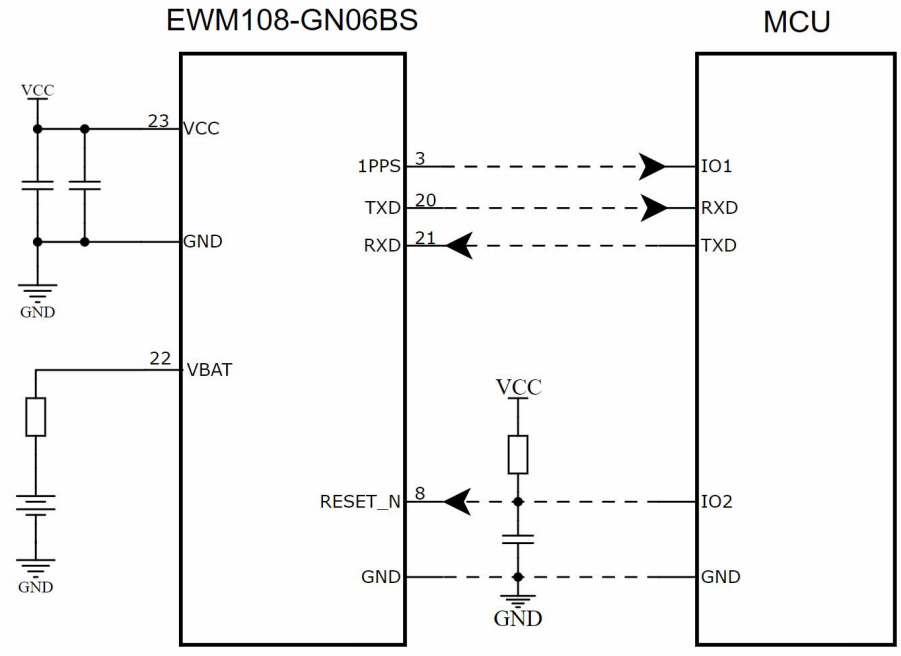
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Chapter 4 Recommended Connection Diagram

4.1 EWM108-GN06B



4.2 EWM108-GN06BS



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Chapter5 Hardware Design

- It is recommended to use a DC regulated power supply to power the module. The power ripple should not exceed 50mV, and the module needs to be reliably grounded.
- Please pay attention to the correct connection of the positive and negative poles of the power supply. Reverse connection may cause permanent damage to the module.
- Please check the power supply to ensure that it is within the recommended power supply voltage. If it exceeds the maximum value, the module will be permanently damaged.
- The serial port TXD and RXD are LVTTL level. If connected to a PC, RS232 level conversion is required. Users can use this serial port to receive positioning information data and software upgrades ;
- This module is a temperature-sensitive device. Drastic temperature changes will cause its performance to degrade. Keep it away from high-temperature airflow and high-power heating devices when using it .
- When designing the power supply circuit for the module, it is often recommended to retain more than 30% margin, so that the whole machine can work stably for a long time;
- , such as power supplies, transformers, and high-frequency wiring. High-frequency digital wiring, high-frequency analog wiring, and power wiring must be kept away from under the module. If necessary, they must pass under the module .
- Assuming the module is soldered on the TopLayer, lay ground copper on the TopLayer of the module contact part (all copper is laid and well grounded), which must be close to the digital part of the module and routed on the BottomLayer;
- Assuming the module is soldered or placed on the TopLayer, it is also wrong to randomly route the wires on the BottomLayer or other layers, which will affect the module's spurious and receiving sensitivity to varying degrees;
- If there are devices with large electromagnetic interference around the module, it will also greatly affect the performance of the module. It is recommended to keep away from the module according to the intensity of the interference. If possible, appropriate isolation and shielding can be performed.
- If there are traces with large electromagnetic interference around the module (high-frequency digital, high-frequency analog, power traces), it will also greatly affect the performance of the module. It is recommended to keep them away from the module according to the intensity of the interference. If possible, appropriate isolation and shielding can be performed.
- The antenna installation structure has a great impact on the module performance. Make sure the antenna is exposed and preferably vertically upward;
- When the module is installed inside the case, you can use a high-quality antenna extension cable to extend the antenna to the outside of the case;
- The antenna must not be installed inside a metal shell, as this will greatly reduce the transmission distance.

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Chapter6 Instruction Format

6.1 NMEA custom message

6.2 Support NMEA0183 protocol

Supports NMEA0183 V4.1 protocol and is compatible with previous versions. For detailed information about NMEA0183 V4.1, please refer to the official document of NMEA 0183 V4.1. Common output formats are as follows:

GGA: time, location, number of satellites

GSA: GPS receiver operation mode, satellites used for positioning, DOP value, positioning status

GSV: visible GPS satellite information, elevation, azimuth, signal-to-noise ratio RMC: time, date, position, speed

VTG: Ground speed information

6.2.1 Statement identifiers

Identifier	meaning
BD	BeiDou Navigation Satellite System (BDS)
GP	GPS
GL	GLONASS
GA	Galileo
GN	GNSS, Global Navigation Satellite System

6.2.2 GGA

$--GGA,hhmmss.ss,llll.ll,a,yyyyy.yy,a,x,xx,xx,xx,M,xx,M,xx,xxxx*hh

Sample data: $GPGGA,065545.789,2109.9551,N,12023.4047,E,1,9,0.85,18.1,M,8.0,M,,*5E

name	Example	unit	describe
Message ID	$GPGGA		GGA protocol header
UTC time	065545.789		hhmmss.sss
latitude	2109.9551		ddmm.mmmm
N/S Indication	N		N=North, S=South
longitude	12023.4047		ddddmm.mmmm
E/W indication	E		W=West, E=East
Positioning Instructions			0: Not positioned 1: SPS mode, positioning is valid 2: Differential, SPS mode, positioning valid 3:PPS mode, positioning is valid

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Number of satellites	9		Range 0 to 12
HDOP	0.85		Horizontal accuracy
MSL Amplitude	18.1	rice	
unit	M	rice	
Earth	-2.2	rice	
unit	M		-
Differential Time	8.0	Second	Invalid when there is no DGPS
Differential ID	0000		
Checksum	*5E		
<CR><LF>			End of message

6.2.3 GSA

$--GSA,a,a,x,x,x,x,x,x,x,x,x,x,x,x,x,x,xx,xx,xx*hh

Sample data: $GPGSA,A,3,10,24,12,32,25,21,15,20,31,,,,1.25,0.85,0.91*04

name	Example	unit	describe
Message ID	$GPGS		GSA protocol header
Mode 1	A		M = Manual, force 2D or 3D mode A=Automatic
Mode 2	3		1: Positioning invalid ; 2: 2D positioning ; 3: 3D positioning
Satellite use	10		Channel 1
Satellite use	twenty four		Channel 2
Satellite use	12		Channel 3
Satellite use	32		Channel 4
Satellite use	25		Channel 5
Satellite use	twenty one		Channel 6
Satellite use	15		Channel 7
Satellite use	20		Channel 8
...	...	...	...
Satellite use			Channel 12
PDOP	1.25		Position accuracy
HDOP	0.85		Horizontal accuracy
VDOP	0.91		Vertical accuracy
Checksum	*04		
<CR><LF>			End of message

6.2.4 GSV

$--GSV,x,x,x,x,x,x,x,...*hh

Sample data:

$GPGSV,3,1,12,14,75,001,31,32,67,111,38,31,57,331,33,26,47,221,20*73

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$GPGSV,3,2,12,25,38,041,29,29,30,097,32,193,26,176,35,22,23,301,30*47
$GPGSV,3,3,12,10,20,185,28,44,20,250,,16,17,217,21,03,14,315,*7D

name	Example	unit	describe
Message ID	$GPGSV		GSV protocol header
Number of messages	3		Range 1 to 3
Message number	1		Range 1 to 3
Number of satellites	12		
Satellite ID	14		Range 1 to 32
Elevation	75	Spend	Max. 90°
Azimuth	001	Spend	Range 0 to 359°
Carrier to Noise Ratio (C/No)	31	dBHz	Range 0 to 99, empty if no trace is found
Satellite ID	32		Range 1 to 32
Elevation	67	Spend	Max. 90°
Azimuth	111	Spend	Range 0 to 359°
Carrier to Noise Ratio (C/No)	38	dBHz	Range 0 to 99, empty if no trace is found
Satellite ID	31		Range 1 to 32
Elevation	57	Spend	Max. 90°
Azimuth	331	Spend	Range 0 to 359°
Carrier to Noise Ratio (C/No)	33	dBHz	Range 0 to 99, empty if no trace is found
Satellite ID	26		Range 1 to 32
Elevation	47	Spend	Max. 90°
Azimuth	221	Spend	Range 0 to 359°
Carrier to Noise Ratio (C/No)	20	dBHz	Range 0 to 99, empty if no trace is found
Checksum	*73		
<CR><LF>			End of message

6.2.5 RMC

$--RMC,hhmmss.ss,A,llll.ll,a,yyyyy.yy,a,xx,xx,xxxx,xx,a*hhSample data:
$GPRMC,100646.000,A,3109.9704,N,12123.4219,E,0.257,335.62,291216,,,A*59

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name	Example	unit	describe
Message ID	$GPRMC		RMC protocol header
UTC time	100646.000		hhmmss.ss
state	A		A = data is valid; V = data is invalid
latitude	2109.9704		ddmm.mmmm
N/S Indication	N		N=North, S=South
longitude	11123.4219		ddddmm.mmmm
E/W indication	E		W=West, E=East
Ground speed	0.257	Knot	
position	335.62	Spend	
date	291216		ddmmyy
Magnetic variables			-
Checksum	*59		
<CR><LF>			End of message

6.2.6 VTG

$--VTG,xx,T,xx,M,xx,N,xx,K*hh

Sample data: $GPVTG,335.62,T,,M,0.257,N,0.477,K,A*38

name	Example	unit	describe
Message ID	$GPVTG		VTG protocol header
position	335.62	Spend	
refer to	T		True
position	335.62	Spend	
refer to	M		Magnetic
speed	0.257	Knot	
unit	N		Festival
speed	0.477	km/h	
unit	K		km/h
unit	A		Positioning system mode indication: A—autonomous mode; D—differential mode; E—Estimation (dead reckoning) mode; M—Manual input mode; S—Simulator mode; N—The data is invalid.
Checksum	*10		
<CR><LF>			End of message

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Chapter7 Frequently asked questions

7.1 The transmission distance is not ideal

- When there is a straight-line communication obstacle, the communication distance will be attenuated accordingly ;
- Temperature, humidity, and co-channel interference can increase the communication packet loss rate ;
- The ground absorbs and reflects radio waves, so the test results are poor when close to the ground ;
- Seawater has a strong ability to absorb radio waves, so the test effect at the seaside is poor ;
- If there are metal objects near the antenna, or the antenna is placed in a metal shell, the signal attenuation will be very serious ;
- The power register is set incorrectly, or the air rate is set too high (the higher the air rate, the closer the distance) ;
- The power supply voltage is lower than the recommended value at room temperature. The lower the voltage, the lower the power output.

7.2 Module is easily damaged

- Please check the power supply to ensure that it is within the recommended power supply voltage. If it exceeds the maximum value, the module will be permanently damaged .
- Please check the stability of the power supply. The voltage should not fluctuate greatly or frequently .
- Please ensure anti-static operation during installation and use, as high-frequency components are sensitive to static electricity ;
- Please ensure that the humidity is not too high during installation and use, as some components are humidity sensitive devices ;
- If there is no special requirement, it is not recommended to use it at too high or too low temperature.

7.3 Bit error rate is too high

- There is interference from the same frequency signal nearby. Stay away from the interference source or change the frequency or channel to avoid interference.
- Unsatisfactory power supply may also cause garbled characters, so the reliability of the power supply must be ensured;
- Extension cables or feeder cables that are of poor quality or are too long can also cause a high bit error rate.

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Chapter8 Welding work instructions

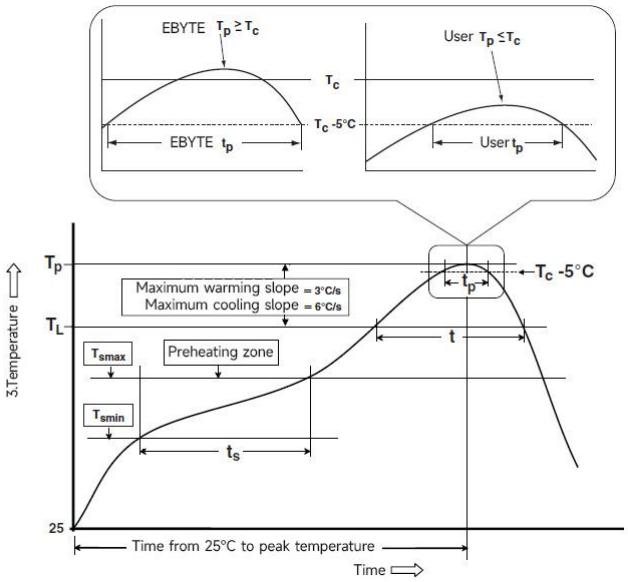
8.1 Reflow Temperature

Reflow profile characteristics		Leaded process assembly	Lead-free assembly
Preheating/keeping	Minimum temperature (Tsmin)	100℃	150℃
	Maximum temperature (Tsmax)	150℃	200℃
	Time (Tsmin~Tsmin)	60-120 seconds	60-120 seconds
Heating slope (TL~Tp)		3℃/sec, max.	3℃/sec, max.
Liquidus temperature (TL)		183℃	217℃
Keep time above TL		60~90 seconds	60~90 seconds
Package peak temperature Tp		Users must not exceed the temperature stated on the product's "Moisture Sensitivity" label.	Users must not exceed the temperature stated on the product's "Moisture Sensitivity" label.
The time (Tp) within 5°C of the specified classification temperature (Tc) is shown in the figure below.		20 seconds	30 seconds
Cooling slope (Tp~TL)		6℃/sec, max.	6℃/sec, max.
Time from room temperature to peak temperature		6 minutes, longest	8 minutes, longest
※The peak temperature (Tp) tolerance of the temperature curve is defined as the upper limit of the user			

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8.2 Reflow Oven Curve



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Chapter 9 Related Models

Product Model	Chip Solution	Support satellite	Package	Product size mm	Communication interface
EWM108 -GN02	-	BDS/GPS/GLONASS	Patches	10.1*9.7*2.4	UART/GPIO
EWM108 -GN02D	-	BDS/GPS/GLONASS	-	22*20 * 7.8	UART
EWM108 -GN0 2S	-	BDS/GPS/GLONASS	Patches	16*12*2.4	UART/GPIO
EWM108 -GN0 3	AT6558R	BDS/GPS/GLONASS	Patches	9.7*10.5*2.4	UART/GPIO
EWM108 -GN0 3S	AT6558R	BDS/GPS/GLONASS	Patches	12.2*16.0*2.4	UART/GPIO
EWM108 - GN0 3D	AT6558R	BDS/GPS/GLONASS	-	20.0*22.0*7.8	UART
EWM108 -GN0 4	-	BDS/GPS/GLONASS/GAL ILEO	Patches	9.7*10.5*2.4	UART/GPIO
EWM108 -GN0 4S	-	BDS/GPS/GLONASS/GAL ILEO	Patches	12.2*16.0*2.4	UART/GPIO
EWM108 - GN0 4D	-	BDS/GPS/GLONASS/GAL ILEO	-	20.0*22.0*7.8	UART

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Revision History

Version	Revision Date	Revision Notes	Maintainer
V1.0	2025-02-26	First edition	Bin

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