

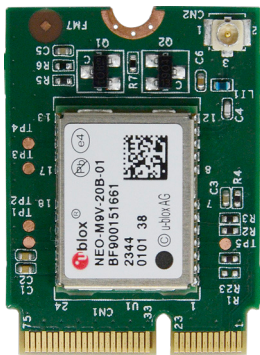
M2-GNSS

Module Boards
Peripheral



KEY FEATURES

Module	Ublox NEO-M9V
Receiver Type	GPS/QZSS L1 C/A GLONASS L10F BeiDou B1I Galileo E1B/C
Form Factor	M.2 2230 E Key 22mm x 30mm
Input Interface	USB 2.0

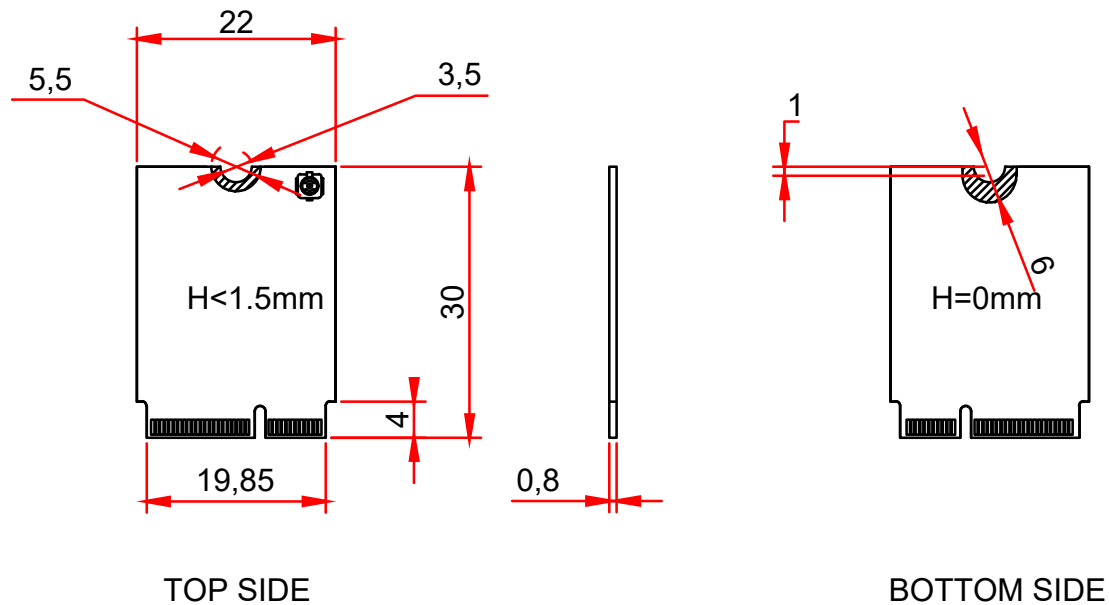


TOP VIEW



BOTTOM VIEW

MECHANICAL DRAWING



SPECIFICATION

MODEL NAME	M2-GNSS
BOARD FORM FACTOR	M.2 2230 E Key (USB 2.0)
CONTROLLER	Ublox NEO-M9V module
RECEIVER TYPE	GPS/QZSS L1 C/A, GLONASS L10F
	BeiDou B1I
	Galileo E1B/C
TIME-TO-FIRST-FIX (GPS + GLONASS)	Cold Start: 25 seconds
	Hot Start: 2 seconds
	Aiding Start: 2 seconds
SENSITIVITY (GPS + GLONASS)	Tracking & Navigation -159 dBm
	Reacquisition -158 dBm
	Cold start -148 dBm
POSITION ACCURACY (GPS + GLONASS)	Horizontal : 1.7 m (SBAS)
TIME PULSE SIGNAL ACCURACY	RMS: 30 ns
	99%: 60 ns
VELOCITY ACCURACY	0.08 m/s
OPERATIONAL LIMITS	Dynamics <4 g
	Altitude 80,000 m
	Velocity 500 m/s
DEAD RECKONING	UDR (by request)
DIMENSION	22 x 30mm
TEMPERATURE	Op. temp: -40 to 85°C
	Storage temp.: -40 to 85°C

ORDERING INFORMATION

Model Name	Part Number	Description
M2-GNSS	770-M2GNSS1-000G	M.2 2230 E Key GNSS module , NEO-M9V, GPS/QZSS/GLONASS/ BeiDou/Galileo

PACKING LIST

• 1 M2-GNSS module	
• 1 IPEX cable (Length: 300mm)	A81-099012-019G