5.14.12 UBX-NAV-RELPOSNED (0x01 0x3C)

5.14.12.1 Relative Positioning Information in NED frame

Message	**UBX-NAV-RELPOSNED**
Description	**Relative Positioning Information in NED frame**
Firmware	Supported on: • u-blox 9 with protocol version 27.11 (**only with High Precision GNSS products**)
Type	Periodic/Polled
Comment	**The NED frame is defined as the local topological system at the reference station. The relative position vector components in this message, along with their associated accuracies, are given in that local topological system** This message contains the relative position vector from the Reference Station to the Rover, including accuracy figures, in the local topological system defined at the reference station

	Header	Class	ID	Length (Bytes)	Payload	Checksum
Message Structure	0xB5 0x62	0x01	0x3C	64	see below	CK_A CK_B

Payload Contents:

Byte Offset	Number Format	Scaling	Name	Unit	Description
0	U1	-	`version`	-	Message version (0x01 for this version)
1	U1	-	`reserved1`	-	Reserved
2	U2	-	`refStationId`	-	Reference Station ID. Must be in the range 0..4095
4	U4	-	`iTOW`	ms	GPS time of week of the navigation epoch. See the description of iTOW for details.
8	I4	-	`relPosN`	cm	North component of relative position vector
12	I4	-	`relPosE`	cm	East component of relative position vector
16	I4	-	`relPosD`	cm	Down component of relative position vector
20	I4	-	`relPosLength`	cm	Length of the relative position vector
24	I4	1e-5	`relPosHeading`	deg	Heading of the relative position vector
28	U1[4]	-	`reserved2`	-	Reserved
32	I1	0.1	`relPosHPN`	mm	High-precision North component of relative position vector. Must be in the range -99 to +99. The full North component of the relative position vector, in units of cm, is given by relPosN + (relPosHPN * 1e-2)
33	I1	0.1	`relPosHPE`	mm	High-precision East component of relative position vector. Must be in the range -99 to +99. The full East component of the relative position vector, in units of cm, is given by relPosE + (relPosHPE * 1e-2)
34	I1	0.1	`relPosHPD`	mm	High-precision Down component of relative position vector. Must be in the range -99 to +99. The full Down component of the relative position vector, in units of cm, is given by relPosD + (relPosHPD * 1e-2)
35	I1	0.1	`relPosHPLength`	mm	High-precision component of the length of the relative position vector. Must be in the range -99 to +99. The full length of the relative position vector, in units of cm, is given by relPosLength + (relPosHPLength * 1e-2)
36	U4	0.1	`accN`	mm	Accuracy of relative position North component
40	U4	0.1	`accE`	mm	Accuracy of relative position East component
44	U4	0.1	`accD`	mm	Accuracy of relative position Down component
48	U4	0.1	`accLength`	mm	Accuracy of length of the relative position vector
52	U4	1e-5	`accHeading`	deg	Accuracy of heading of the relative position vector
56	U1[4]	-	`reserved3`	-	Reserved
60	X4	-	`flags`	-	Flags (see graphic below)