

NT1065 CONFIGURATION FILES DESCRIPTION:

	Setup1.hex	Setup2.hex	Setup3.hex	Setup4.hex	Setup5.hex	Setup6.hex
General settings:						
Reference frequency	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz
LO source	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for CLK; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;
CLK settings:						
CLK frequency source	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»
CLK frequency,MHz	99.375	53	99.375	53	99.375	99.375
CLK type	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS
CLK amplitude ¹ , V	Preset 4	Preset 4	Preset 4	Preset 4	Preset 4	Preset 4
Channel settings:						
Ch#1 GNSS	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1-C)	Channel disabled	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1)
Ch#2 GNSS	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	Channel disabled	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)
Ch#3 GNSS	USB (GPS L2-O, QZSS L2)	USB (GLONASS L2-OF)	USB (GPS L2-O, QZSS L2)	Channel disabled	USB (GLONASS L2-OF)	USB (GLONASS L3, Galileo E5b, Beidou B2)
Ch#4 GNSS	LSB (GPS L5, GLONASS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)	LSB (GPS L2-O, QZSS L2)	LSB (GPS L5, GLONASS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)	LSB (GPS L5, GLONASS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)	LSB (GPS L2-O, QZSS L2, GLONASS L3, Galileo E5b, Beidou B2)	LSB (GLONASS L5, QZSS, GPS L5, L5Galileo E5a, IRNSS L5)
Ch#1 IF passband, MHz	27.1	27.1	Channel disabled	27.1	30.5	33.1
Ch#2 IF passband, MHz	20	20	Channel disabled	20	20	20
Ch#3 IF passband, MHz	38	17.3	38	Channel disabled	17.3	30.2
Ch#4 IF passband, MHz	38	15.1	38	25.5	40	27.1
Channel output signal	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output
IF AGC threshold, mV	-	-	-	-	-	-
AGC mode	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto
ADC output logic-level high	ext.	ext.	ext.	ext.	ext.	ext.
ADC type	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge
PLL settings:						
FLO PLL «A», MHz	1590	1590	1590	1590	1590	1590
FLO PLL «B», MHz	1200	1235	1200	1190	1235	1190

	Setup7.hex	Setup8.hex	Setup9.hex	Setup10.hex	Setup11.hex	Setup12.hex
General settings:						
Reference frequency	16.368MHz	16.368MHz	10MHz	10MHz	10MHz	10MHz
LO source	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;
CLK settings:						
CLK frequency source	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»
CLK frequency,MHz	99.231	99.231	66.25	66.25	99.375	66.25
CLK type	CMOS	CMOS	CMOS	LVDS	LVDS	LVDS
CLK amplitude ¹ , V	ext.	ext.	ext.	Preset 3	Preset 3	Preset 3
Channel settings:						
Ch#1 GNSS	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)
Ch#2 GNSS	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	LSB (GPS L1-OC, QZSS L1, Beidou B1, Galileo E1)	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)
Ch#3 GNSS	USB (GLONASS L2-OF)	USB (Galileo E6, QZSS LEX)	USB (GPS L2-OC, GLONASS L2-OF)	USB (GLONASS L3, Beidou B2, Galileo E5b)	USB (GPS L2-OC, GLONASS L2-OF)	USB (GLONASS L2-OF)
Ch#4 GNSS	LSB (GPS L2-OC, QZSS L2)	LSB (GLONASS L2-OF)	LSB (GLONASS L3, Beidou B1, Galileo E5b)	LSB (GPS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)	LSB (GPS L5, GLONASS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)	LSB (GPS L2-OC, QZSS L2)
Ch#1 IF passband, MHz	30.8	30.8	33.1	33.1	33.1	33.1
Ch#2 IF passband, MHz	22.6	22.6	20	33.1	20	20
Ch#3 IF passband, MHz	17.3	35.2	33.1	30.2	38	15.1
Ch#4 IF passband, MHz	16	20	30.2	25.1	40	17.3
Channel output signal	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output	2-bit ADC output
IF AGC threshold, mV	-	-	-	-	-	-
AGC mode	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto
ADC output logic-level high	ext.	ext.	ext.	ext.	ext.	ext.
ADC type	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge	Clocked by rising edge
PLL settings:						
FLO PLL «A», MHz	1587.696	1587.696	1590	1590	1590	1590
FLO PLL «B», MHz	1235.784	1260.336	1220	1190	1205	1235

	Setup13.hex	Setup14.hex	Setup15.hex	Setup16.hex	Setup17.hex	Setup18.hex
General settings:						
Reference frequency	10MHz	10MHz	24.84MHz	10MHz	24.84MHz	10MHz
LO source	PLL «A» for ch#1, ch#2, ch#3, ch#4	PLL «A» for ch#1, ch#2, ch#3, ch#4	PLL «A» for ch#1, ch#2, ch#3, ch#4	PLL «A» for ch#1, ch#2, ch#3, ch#4	PLL «A» for ch#1, ch#2, ch#3, ch#4	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;
CLK settings:						
CLK frequency source	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»	PLL «A»
CLK frequency,MHz	53	53	52.992	41.167	41.124	66.111
CLK type	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS
CLK amplitude ¹ , V	Preset 3	Preset 3	Preset 3	Preset 3	Preset 3	Preset 3
Channel settings:						
Ch#1 GNSS	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L2-OC, QZSS L2)	LSB (GPS L2-OC, QZSS L2)	USB (Galileo E5b, Beidou B2, GLONASS L3)
Ch#2 GNSS	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	USB (GLONASS L2-OF, BeiDou B3-A)	USB (GLONASS L2-OF, BeiDou B3-A)	LSB (GPS L5, GLONASS L5, Galileo E5a, QZSS L5, Beidou B5, IRNSS L5)
Ch#3 GNSS	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	USB (GLONASS L1-OF)	USB (GLONASS L1-OF)	USB (GLONASS L2-OF, BeiDou B3-A)	USB (GLONASS L2-OF, BeiDou B3-A)	USB (Galileo E6, QZSS LEX)
Ch#4 GNSS	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L1-O, QZSS L1, Beidou B1-C)	LSB (GPS L2-OC, QZSS L2)	LSB (GPS L2-OC, QZSS L2)	LSB (GLONASS L2-OF)
Ch#1 IF passband, MHz	27.1	25.1	25.1	25.1	25.1	28
Ch#2 IF passband, MHz	27.1	25.1	25.1	25.1	25.1	25.1
Ch#3 IF passband, MHz	27.1	25.1	25.1	25.1	25.1	31.2
Ch#4 IF passband, MHz	27.1	25.1	25.1	25.1	25.1	22.2
Channel output signal	Analog output	Analog output	Analog output	Analog output	Analog output	Analog output
IF AGC threshold, mV	200	200	200	200	200	200
AGC mode	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto	RF manual + IF auto
ADC output logic-level high	-	-	-	-	-	-
ADC type	-	-	-	-	-	-
PLL settings:						
FLO PLL «A», MHz	1590	1590	1589.76	1235	1233.72	1190
FLO PLL «B», MHz	-	-	-	-	-	1260

Setup19.hex

General settings:

Reference frequency	10MHz
LO source	PLL «A» for ch#1, ch#2; PLL «B» for ch#3, ch#4;

CLK settings:

CLK frequency source	PLL «A»
CLK frequency,MHz	61.154
CLK type	LVDS
CLK amplitude ¹ , V	Preset 3

Channel settings:

Ch#1 GNSS	LSB (GPS L1-O, QZSS L1, Galileo E1, Beidou B1)
Ch#2 GNSS	USB (GLONASS L1-OF)
Ch#3 GNSS	USB (GLONASS L2-OF)
Ch#4 GNSS	LSB (GPS L2-OC, QZSS L2)
Ch#1 IF passband, MHz	30.2
Ch#2 IF passband, MHz	20
Ch#3 IF passband, MHz	20
Ch#4 IF passband, MHz	20
Channel output signal	Analog output
IF AGC threshold, mV	200
AGC mode	RF manual + IF auto
ADC output logic-level high	-
ADC type	-

PLL settings:

FLO PLL «A», MHz	1590
FLO PLL «B», MHz	1235

¹ Presets are described in [NT1065 LE DS v*.*.pdf](#) Subsection 5.2 for LVDS CLK type and Subsection 4.4.6.3 Reg12 for CMOS CLK type.