FIBOCOM
Beyond Innovation

GTS-4E VS NEO-5x Correlation Table

Version: V1.0.0

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Revision History

Version	Date	Remarks
V1.0.0	2011-01-14	Initial Release

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Beyond Innovation

1 GPS Performance

	GTR-4E/GTS-4E	NEO-5x
Main Power	2.7～5.5V	2.7～3.6V
Backup power	1.8～5.5V	1.4～3.6V
Power	99mW	120mA
Current Max	100mA	150mA
work condition	Main and backup Power	Only Main Power
USB	Not Support	Support
SPI	Selectable	Support
Channel	48	50
AGPS	Selectable	Need License
ESD	Selectable	Not Support
1PPS	Support	Not Support
Baudrate On power-on	4800	9600/38400
Sensitivity On Cold Start	-148DB	-144DB
Sensitivity Of Tracking	-160DB	-160DB
Sensitivity On Cold Start	-163DB	-160DB
TTFF（Cold Start）	<35s	<29s
TTFF（Warm Start）	<35s	<29s
TTFF（Hot Start）	<1s	<1s
Drift（Near Windows）	<20m：99%	<20m：52%
Sleep Current(Main power Cut)	<600uA	19uA
Sleep Current(By Power OFF)	<190 uA	
Horizontal Position Accuracy	<2.5m	<2.5m
Velocity Accuracy	0.01m/s	0.1m/s
Heading Accuracy	0.01 degree	0.5 degree
Dynamics	4g	4g
Operational Limits	515m/s（1000 knots）	515m/s（1000 knots）
RoHS	Support	Support
Antenna Detect	Not Support	Support
Protocol	NEMA-0183 OSP	NEMA-0183 UBX

Continuous tracking	99mW	Not Support
TricklePower 1Hz(200:1)	13mW	Not Support
Operating Temp.	-40～85	-40～85
Storage Temp.	-40～85	-40～85

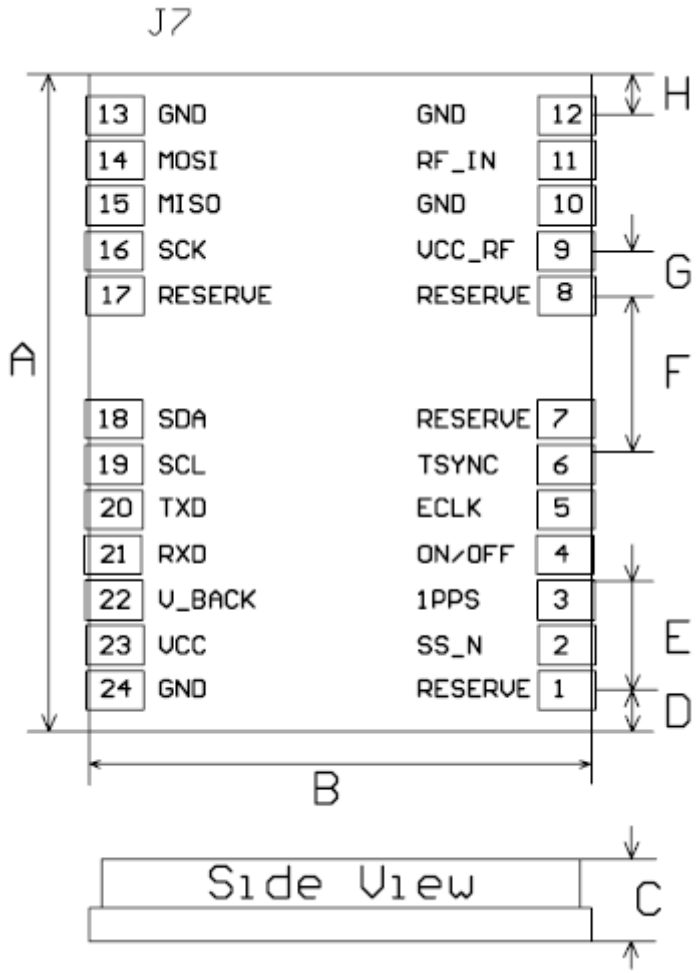
2 Pin Assignment

No.	**GTS-4E**	**I/O**	**Description**	NEO-5x
1	RESERVE		Do not connect	RESERVE
2	SS_N	I	SPI Slave Select	SS_N
3	TIMEPULSE	O	Time pulse (1PPS)	TIMEPULSE
4	ON/OFF	I	External ON/OFF Signal	EXTINT0
5	ECLK	I	ECLK clock input for frequency aiding applications	USB_DM
6	TSYNC	I	TSYNC is the time transfer strobe input used in AGPS precise time aiding. Edges on this pin latch ACQCLK counter values, this helps message data to transfer time information between systems.	USB_DP
7	RESERVE		Do not connect	VDDUSB
8	RESERVE		Do not connect	RESERVE
9	VCC_RF	O	Output Voltage RF section	VCC_RF
10	GND	I	Ground	GND
11	RF_IN	I	GPS signal input	RF_IN
12	GND	I	Ground	GND
13	GND	I	Ground	GND
14	MOSI	I	SPI MOSI	MOSI
15	MISO	O	SPI MISO	MISO
16	SCK	I	SPI Clock	SCK
17	RESERVE		Do not connect	RESERVE
18	SDA	I/O	DDC Data	SDA

19	SCL	I/O	DDC Clock	SCL
20	TXD	O	Serial Port 1	TXD
21	RXD	I	Serial Port 1	RXD
22	V_BACK	I	Backup voltage supply	V_BACK
23	VCC	I	Supply voltage	VCC
24	GND	I	Ground	GND

3 Mechanical Specifications

Parameter	Specification	Specification
A	16.0 +0.6/-0.1mm [628.8 +24/-4mil]	16.0 +0.6/-0.1mm [628.8 +24/-4mil]
B	12.2 ±0.1mm [479.5 ±4mil]	12.2 ±0.1mm [479.5 ±4mil]
C	3.0 ±0.2mm [117.9 ±8mil]	2.4 ±0.2mm [94.3 ±8mil]
D	1.0 +0.3/-0.1mm [39.3 +18/-4mil]	1.0 +0.3/-0.1mm [39.3 +18/-4mil]
E	1.1 ±0.1mm [43.2 ±4mil]	1.1 ±0.1mm [43.2 ±4mil]
F	3.0 ±0.1mm [117.9 ±4mil]	3.0 ±0.1mm [117.9 ±4mil]
G	1.1 ±0.1mm [43.2 ±4mil]	1.1 ±0.1mm [43.2 ±4mil]
H	1 +0.3/-.01mm [39.3 +18/-4mil]]	1 +0.3/-.01mm [39.3 +18/-4mil]]
Weight	1.6g	1.6g


J7
13 GND
14 MOSI
15 MISO
16 SCK
17 RESERVE
18 SDA
19 SCL
20 TXD
21 RXD
22 V_BACK
23 VCC
24 GND
GND 12
RF_IN 11
GND 10
VCC_RF 9
RESERVE 8
RESERVE 7
TSYNC 6
ECLK 5
ON/OFF 4
1PPS 3
SS_N 2
RESERVE 1
A
B
C
D
E
F
G
H
Side View