GINA 2011 RF Module Data Specification Guide

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
24	PA_PE	I	Enable TX amplifier .normally set to H
25	6.0v	I	Using TX final AMP stage and RX LNA.It is required 650mA current when TX is on.20mA for RX is on.
26	TR_SW	I	Control antenna switch H for TX. L for Receive.
27	PE1	I	power enable control for HFA 3783,3683(PE1 pin)
28	PE2	I	power enable control for HFA 3783,3683(PE2 pin)
29	SCLK_RF_IF	I	clock to program PLL for HFA3783(pin18)3683(pin23)
30	SD_RF_IF	I	data to program PLL for HFA3783(pin19) ,3863(pin22)
31	NOT USE	2	
32	RX_CLK	O	Receive clock out from HFA3861 (pin52)
33	MD_RDY	O	Data packet ready from HFA3861 (pin54)
34	TX_DATA	I	Transmit data to HFA3861 (pin58)
35	CCA	O	Clear Channel Assessment out from HFA3861(pin60)
36	TX_PE	I	HFA3861(pin62) transmitter control. Active H
37	RESET_BB	I	Reset for HFA3861(pin63)
38	NOT USE		
39	S_CLK	I	Clock for programming HFA3861(pin4)
40	BB_R/W	I	Input to HFA3861(pin5) for programming
41	CS_BB	I	Chip select input to HFA3861(pin6) for programming
42	NOT USE		
43	NOT USE		
44	NOT USE		
45	NOT USE		
46	NOT USE		
47	NOT USE		
48	NOT USE	ě	
49	6.0v	I	Same voltage as pin 25
50	6.0v	I	Same voltage as pin 25

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Connector Layout



LED Indicator

3 LED indicator

Module has 3 different LED located inside of shield case.

Power on RED color LED

TX on RED color LED

RX condition by GREEN color LED .-----sharing CCA output from HFA3861.

4 Antenna connector

Module has two antenna connector located on right side and left side.

Marked "A" on Right side

Marked "B" on Left side

NOTE: You can program and select A or B by HFA3861B CR9 and CR40. This will depend upon how you elect to configure your system either for a single antenna or diversity antenna.

5 Technical information

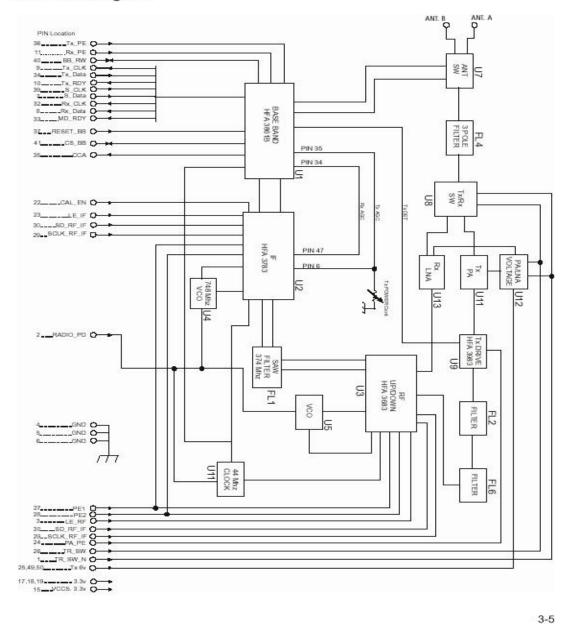
GRE America Inc. cannot provide any schematic diagram (s) or component (s) specifications for any Customers / End Users for any reasons. GRE America will however provide a Block Diagram for reference and in oder to familiarize you with the RF Module.

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RF Block Diagram.



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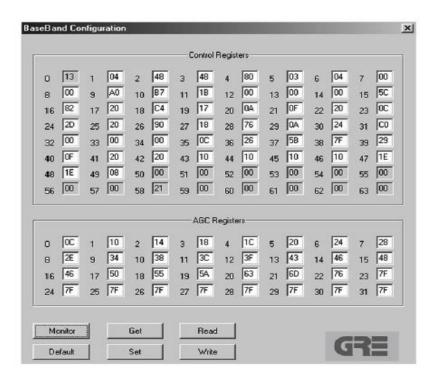
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Typical Register Values

Transmitter Register Values

Typical Register value for Intersil Baseband HFA3861B "Transmitter" at 11 mbps



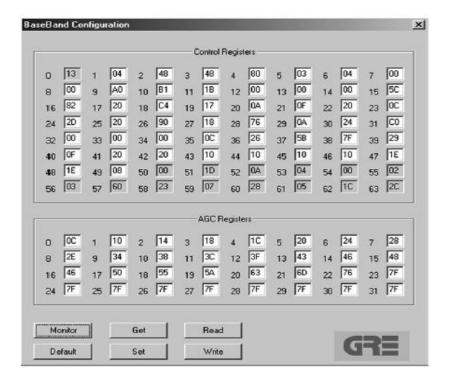
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Typical Register Values

Receiver Register Values

Typical Register value for Intersil Baseband HFA3861B "Receiver" at 11 mbps



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