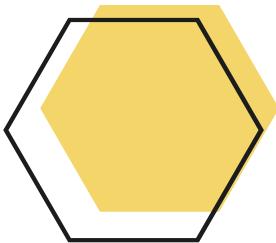


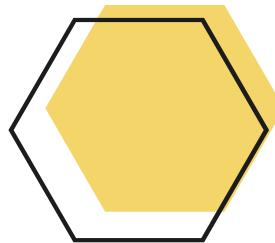
DATASHEET

R-6LP-G1H-28D-A1



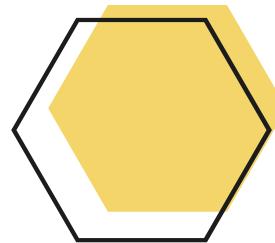
Wi-SUN Transceiver

High-Performance, Wi-SUN Transceiver Module built around Renesas RL78-G1H Chipset



Sub GHz ISM Band

863 MHz to 928 MHz operating Frequency in license-free Band



Industrial grade

-40 deg C to +85 deg C operation temperature



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HW REV# 02.00

TECHNICAL SPECIFICATION

RADIO MODULE – GENERAL INFO	
Chipset Info	Renesas RL78/G1H, 16 bit MCU, 32 MHz, 44 DMIPS
Memory (Max Option)	Program Flash 512 KB, Data flash 8 KB, SRAM 48 KB
Operating Frequency	863 MHz to 928 MHz
Data Modulation	2GFSK/4GFSK
Operating Mode	Fixed Frequency mode & Frequency Hopping (SW Configurable)
Number of Channels (50 Kbps)	EU-69, NA-129, JP-38, IN-19
Number of Channels (100 Kbps)	EU-35, JP-37, IN-10
Number of Channels (150 Kbps)	EU-35, NA-64
Number of Channels (200 Kbps)	NA-64, JP-36
RoHS Compliance	Compliant
INTERFACE SPECIFICATIONS	
Interface	UART Interface, 115,200 baud, Berg Stick Connectors, 2.0 mm Pitch
Operating Voltage	3.3V +/- 10%
Stand by Current in RX Mode	6 mA
RF Antenna	Integrated Chip Antenna
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature Range	-40 deg C to +85 deg C
PHYSICAL SPECIFICATIONS	
Mechanical Dimension (Assembled condition)	(L) 25 mm x (W) 53 mm x (H) 9.1 mm
Weight of the Module without ESD Bag	6 g
REGULATORY INFORMATION	
Compliance	TBD Regions Supported – USA, CANADA, EUROPE, JAPAN, INDIA Please contact enquiry@vizmonet.com for any other regions not listed here.
PACKAGING INFORMATION	
No of units - TBD	Carton Size - TBD

ORDERING INFORMATION

R-6LP-G1H-28D-A1

RF Transceiver Module, 6LoWPAN, 863 to 928 MHz, Internal Antenna, 28 dBm

RADIO SPECIFICATION

TX Power and RX Sensitivity

902 MHz to 928 MHz, +/-1 dBm

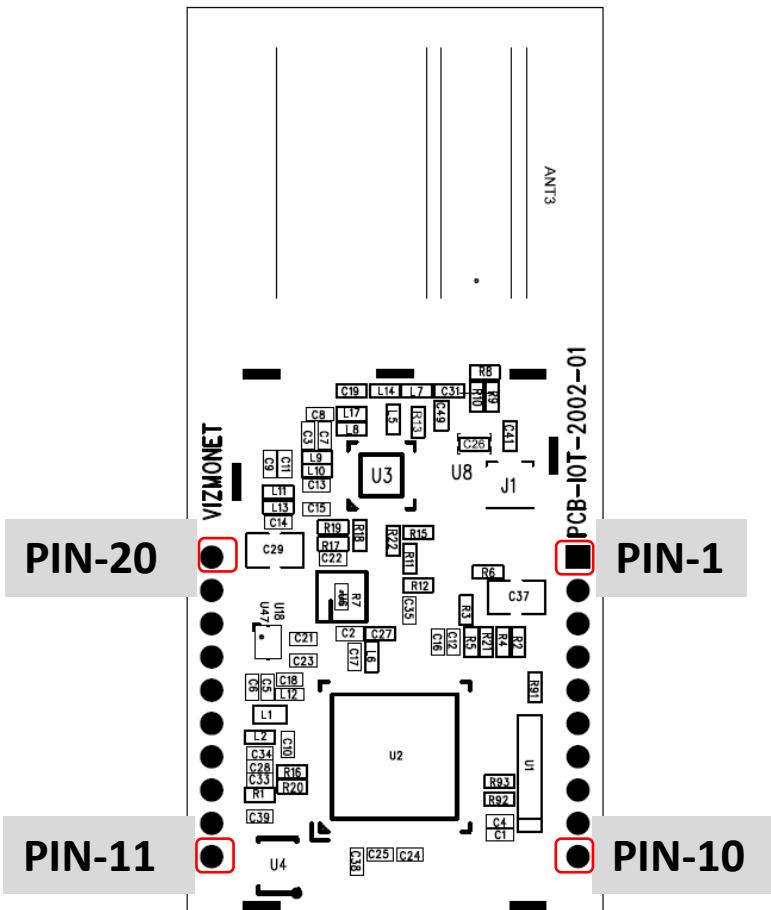
TX Power Setting	Power (dBm)	Current at 3.3V (mA)
1	8.5	80
5	11	90
10	13.5	110
20	16	120
30	19	140
40	21	190
50	24	260
60	26	290
70	27	320
80	28	350

902 MHz to 928 MHz, BER <1%, +/-1 dBm

Data Rate (Kbps)	Modulation	RX Sensitivity (dBm)
50	2GFSK	-113
100	2GFSK	-111
150	2GFSK	-109
200	2GFSK	-108

Connector Pin layout

Pin Number	Function	Pin Number	Function
1	VDD	20	TOOLO (P40)
2	TXD (P02)	19	LED1 (P60)
3	RXD (P03)	18	LED1 (P61)
4	NC	17	LED1 (P62)
5	RESET	16	RXD3(P143)
6	ANI12(P156)	15	TXD3(P144)
7	ANI13(P155)	14	SCK30(P142)
8	ANI14(P22)	13	SCK21(P70)
9	INTPO(P137)	12	SI71(P71)
10	GND	11	SO21(P72)



Connector Pin Description

Pin No	Pin Name	Description
1	VDD	Module Power supply input, 3.3V +/- 10 %
2	TXD (P02)	UART OUT (TX), connected to Port P02 of R7L78/G1H
3	RXD (P03)	UART OUT (RX), connected to Port P03 of RL78/G1H
5	RESET	Reset input
10	GND	GND
20	TOOL0(P40)	Data Input / Output for Renesas Programming Tool

Fan-out GPIO

Pin No	Pin Name	Description
6	ANI12(P156)	ADC Input connected to Port P156 of RL78/G1H
7	ANI13(P155)	ADC Input connected to Port P155 of RL78/G1H
8	ANI14(P22)	ADC Input connected to Port P22 of RL78/G1H
9	INTPO(P137)	External Interrupt input connected to Port P137 of RL78/G1H
11	SO21(P72)	GPIO connected to Port P72 of RL78/G1H, can be used for Serial data I/O
12	SI71(P71)	GPIO connected to Port P71 of RL78/G1H, can be used for Serial data I/O
13	SCK21(P70)	GPIO connected to Port P70 of RL78/G1H, can be used for Serial data I/O
14	SCK30(P142)	GPIO connected to Port P142 of RL78/G1H, can be used for Serial data I/O
15	TXD3(P144)	GPIO connected to Port P144 of RL78/G1H, can be used for additional UART
16	RXD3(P143)	GPIO connected to Port P143 of RL78/G1H, can be used for additional UART
17	LED1 (P62)	GPIO Connected to Port P60 of RL78/G1H. It can be connected to LED (Active Low) in Base Board for Wi-SUN Status
18	LED1 (P61)	GPIO Connected to Port P60 of RL78/G1H. It can be connected to LED (Active Low) in Base Board for Wi-SUN Status
19	LED1 (P60)	GPIO Connected to Port P60 of RL78/G1H. It can be connected to LED (Active Low) in Base Board for Wi-SUN Status

Fan-out GPIO must be NC, when not used in the Target Board, where the module is mounted

Supported Frequency Bands and Channel Wi-SUN Parameters

NA- North America that includes USA & CANADA

Frequency (MHz)	Region	Wi-SUN PHY Mode	G1H Band ID	Data Rate (Kbps)	Modulation	Modulation Index	No of Channels	Channel Spacing (KHz)
863-870	Europe	0	4	50	2GFSK	0.5	69	100
863-870	Europe	1	4	100	2GFSK	0.5	35	200
863-870	Europe	2	4	150	2GFSK	0.5	35	200
902-928	NA	3	7	50	2GFSK	1	129	200
902-928	NA	4	7	150	2GFSK	0.5	64	400
902-928	NA	5	7	200	2GFSK	0.5	64	400
920-928	Japan	8	9	50	2GFSK	1	38	200
920-928	Japan	9	9	100	2GFSK	1	37	200
920-928	Japan	11	9	200	2GFSK	1	36	200
865-867	India	13	4	50	2GFSK	0.5	19	100
865-867	India	14	4	100	2GFSK	0.5	10	200

Frequency Channel Mapping

(Europe) Band ID 4, Channel setting of the Wi-SUN PHY Mode 0, 50 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	863.1	1 (0x01)	863.2	2 (0x02)	863.3	3 (0x03)	863.4
4 (0x04)	863.5	5 (0x05)	863.6	6 (0x06)	863.7	7 (0x07)	863.8
8 (0x08)	863.9	9 (0x09)	864	10 (0xA)	864.1	11 (0xB)	864.2
12 (0xC)	864.3	13 (0xD)	864.4	14 (0xE)	864.5	15 (0xF)	864.6
16 (0x10)	864.7	17 (0x11)	864.8	18 (0x12)	864.9	19 (0x13)	865
20 (0x14)	865.1	21 (0x15)	865.2	22 (0x16)	865.3	23 (0x17)	865.4
24 (0x18)	865.5	25 (0x19)	865.6	26 (0x1A)	865.7	27 (0x1B)	865.8
28 (0x1C)	865.9	29 (0x1D)	866	30 (0x1E)	866.1	31 (0x1F)	866.2
32 (0x20)	866.3	33 (0x21)	866.4	34 (0x22)	866.5	35 (0x23)	866.6
36 (0x24)	866.7	37 (0x25)	866.8	38 (0x26)	866.9	39 (0x27)	867
40 (0x28)	867.1	41 (0x29)	867.2	42 (0x2A)	867.3	43 (0x2B)	867.4
44 (0x2C)	867.5	45 (0x2D)	867.6	46 (0x2E)	867.7	47 (0x2F)	867.8
48 (0x30)	867.9	49 (0x31)	868	50 (0x32)	868.1	51 (0x33)	868.2
52 (0x34)	868.3	53 (0x35)	868.4	54 (0x36)	868.5	55 (0x37)	868.6
56 (0x38)	868.7	57 (0x39)	868.8	58 (0x3A)	868.9	59 (0x3B)	869
60 (0x3C)	869.1	61 (0x3D)	869.2	62 (0x3E)	869.3	63 (0x3F)	869.4
64 (0x40)	869.5	65 (0x41)	869.6	66 (0x42)	869.7	67 (0x43)	869.8
68 (0x44)	869.9						

(Europe) Band ID 4, Channel setting of the Wi-SUN PHY Mode 0, 50 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	863.1	1 (0x01)	863.3	2 (0x02)	863.5	3 (0x03)	863.7
4 (0x04)	863.9	5 (0x05)	864.1	6 (0x06)	864.3	7 (0x07)	864.5
8 (0x08)	864.7	9 (0x09)	864.9	10 (0xA)	865.1	11 (0xB)	865.3
12 (0xC)	865.5	13 (0xD)	865.7	14 (0xE)	865.9	15 (0xF)	866.1
16 (0x10)	866.3	17 (0x11)	866.5	18 (0x12)	866.7	19 (0x13)	866.9
20 (0x14)	867.1	21 (0x15)	867.3	22 (0x16)	867.5	23 (0x17)	867.7
24 (0x18)	867.9	25 (0x19)	868.1	26 (0x1A)	868.3	27 (0x1B)	868.5
28 (0x1C)	868.7	29 (0x1D)	868.9	30 (0x1E)	869.1	31 (0x1F)	869.3
32 (0x20)	869.5	33 (0x21)	869.7	34 (0x22)	869.9		

(North America) Band ID 7, Channel setting of the Wi-SUN PHY Mode 3, 50 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	902.2	1 (0x01)	902.4	2 (0x02)	902.6	3 (0x03)	902.8
4 (0x04)	903	5 (0x05)	903.2	6 (0x06)	903.4	7 (0x07)	903.6
8 (0x08)	903.8	9 (0x09)	904	10 (0x0A)	904.2	11 (0x0B)	904.4
12 (0x0C)	904.6	13 (0x0D)	904.8	14 (0x0E)	905	15 (0x0F)	905.2
16 (0x10)	905.4	17 (0x11)	905.6	18 (0x12)	905.8	19 (0x13)	906
20 (0x14)	906.2	21 (0x15)	906.4	22 (0x16)	906.6	23 (0x17)	906.8
24 (0x18)	907	25 (0x19)	907.2	26 (0x1A)	907.4	27 (0x1B)	907.6
28 (0x1C)	907.8	29 (0x1D)	908	30 (0x1E)	908.2	31 (0x1F)	908.4
32 (0x20)	908.6	33 (0x21)	908.8	34 (0x22)	909	35 (0x23)	909.2
36 (0x24)	909.4	37 (0x25)	909.6	38 (0x26)	909.8	39 (0x27)	910
40 (0x28)	910.2	41 (0x29)	910.4	42 (0x2A)	910.6	43 (0x2B)	910.8
44 (0x2C)	911	45 (0x2D)	911.2	46 (0x2E)	911.4	47 (0x2F)	911.6
48 (0x30)	911.8	49 (0x31)	912	50 (0x32)	912.2	51 (0x33)	912.4
52 (0x34)	912.6	53 (0x35)	912.8	54 (0x36)	913	55 (0x37)	913.2
56 (0x38)	913.4	57 (0x39)	913.6	58 (0x3A)	913.8	59 (0x3B)	914
60 (0x3C)	914.2	61 (0x3D)	914.4	62 (0x3E)	914.6	63 (0x3F)	914.8
64 (0x40)	915	65 (0x41)	915.2	66 (0x42)	915.4	67 (0x43)	915.6
68 (0x44)	915.8	69 (0x45)	916	70 (0x46)	916.2	71 (0x47)	916.4
72 (0x48)	916.6	73 (0x49)	916.8	74 (0x4A)	917	75 (0x4B)	917.2
76 (0x4C)	917.4	77 (0x4D)	917.6	78 (0x4E)	917.8	79 (0x4F)	918
80 (0x50)	918.2	81 (0x51)	918.4	82 (0x52)	918.6	83 (0x53)	918.8
84 (0x54)	919	85 (0x55)	919.2	86 (0x56)	919.4	87 (0x57)	919.6
88 (0x58)	919.8	89 (0x59)	920	90 (0x5A)	920.2	91 (0x5B)	920.4
92 (0x5C)	920.6	93 (0x5D)	920.8	94 (0x5E)	921	95 (0x5F)	921.2
96 (0x60)	921.4	97 (0x61)	921.6	98 (0x62)	921.8	99 (0x63)	922
100(0x64)	922.2	101(0x65)	922.4	102(0x66)	922.6	103(0x67)	922.8
104(0x68)	923	105(0x69)	923.2	106(0x6A)	923.4	107(0x6B)	923.6
108(0x6C)	923.8	109(0x6D)	924	110(0x6E)	924.2	111(0x6F)	924.4
112(0x70)	924.6	113(0x71)	924.8	114(0x72)	925	115(0x73)	925.2
116(0x74)	925.4	117(0x75)	925.6	118(0x76)	925.8	119(0x77)	926
120(0x78)	926.2	121(0x79)	926.4	122(0x7A)	926.6	123(0x7B)	926.8
124(0x7C)	927	125(0x7D)	927.2	126(0x7E)	927.4	127(0x7F)	927.6
128(0x80)	927.8						

(North America) Band ID 7, Channel setting of the Wi-SUN PHY Mode 4, 150 Kbps, PHY Mode 5, 200 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	902.4	1 (0x01)	902.8	2 (0x02)	903.2	3 (0x03)	903.6
4 (0x04)	904	5 (0x05)	904.4	6 (0x06)	904.8	7 (0x07)	905.2
8 (0x08)	905.6	9 (0x09)	906	10 (0x0A)	906.4	11 (0x0B)	906.8
12 (0x0C)	907.2	13 (0x0D)	907.6	14 (0x0E)	908	15 (0x0F)	908.4
16 (0x10)	908.8	17 (0x11)	909.2	18 (0x12)	909.6	19 (0x13)	910
20 (0x14)	910.4	21 (0x15)	910.8	22 (0x16)	911.2	23 (0x17)	911.6
24 (0x18)	912	25 (0x19)	912.4	26 (0x1A)	912.8	27 (0x1B)	913.2
28 (0x1C)	913.6	29 (0x1D)	914	30 (0x1E)	914.4	31 (0x1F)	914.8
32 (0x20)	915.2	33 (0x21)	915.6	34 (0x22)	916	35 (0x23)	916.4
36 (0x24)	916.8	37 (0x25)	917.2	38 (0x26)	917.6	39 (0x27)	918
40 (0x28)	918.4	41 (0x29)	918.8	42 (0x2A)	919.2	43 (0x2B)	919.6
44 (0x2C)	920	45 (0x2D)	920.4	46 (0x2E)	920.8	47 (0x2F)	921.2
48 (0x30)	921.6	49 (0x31)	922	50 (0x32)	922.4	51 (0x33)	922.8
52 (0x34)	923.2	53 (0x35)	923.6	54 (0x36)	924	55 (0x37)	924.4
56 (0x38)	924.8	57 (0x39)	925.2	58 (0x3A)	925.6	59 (0x3B)	926
60 (0x3C)	926.4	61 (0x3D)	926.8	62 (0x3E)	927.2	63 (0x3F)	927.6

(Japan) Band ID 9, Channel setting of the Wi-SUN PHY Mode 8, 50 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	920.6	1 (0x01)	920.8	2 (0x02)	921	3 (0x03)	921.2
4 (0x04)	921.4	5 (0x05)	921.6	6 (0x06)	921.8	7 (0x07)	922
8 (0x08)	922.2	9 (0x09)	922.4	10 (0x0A)	922.6	11 (0x0B)	922.8
12 (0x0C)	923	13 (0x0D)	923.2	14 (0x0E)	923.4	15 (0x0F)	923.6
16 (0x10)	923.8	17 (0x11)	924	18 (0x12)	924.2	19 (0x13)	924.4
20 (0x14)	924.6	21 (0x15)	924.8	22 (0x16)	925	23 (0x17)	925.2
24 (0x18)	925.4	25 (0x19)	925.6	26 (0x1A)	925.8	27 (0x1B)	926
28 (0x1C)	926.2	29 (0x1D)	926.4	30 (0x1E)	926.6	31 (0x1F)	926.8
32 (0x20)	927	33 (0x21)	927.2	34 (0x22)	927.4	35 (0x23)	927.6
36 (0x24)	927.8	37 (0x25)	928				

(Japan) Band ID 9, Channel setting of the Wi-SUN PHY Mode 9, 100 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	920.7	1 (0x01)	920.9	2 (0x02)	921.1	3 (0x03)	921.3
4 (0x04)	921.5	5 (0x05)	921.7	6 (0x06)	921.9	7 (0x07)	922.1
8 (0x08)	922.3	9 (0x09)	922.5	10 (0x0A)	922.7	11 (0x0B)	922.9
12 (0x0C)	923.1	13 (0x0D)	923.3	14 (0x0E)	923.5	15 (0x0F)	923.7
16 (0x10)	923.9	17 (0x11)	924.1	18 (0x12)	924.3	19 (0x13)	924.5
20 (0x14)	924.7	21 (0x15)	924.9	22 (0x16)	925.1	23 (0x17)	925.3
24 (0x18)	925.5	25 (0x19)	925.7	26 (0x1A)	925.9	27 (0x1B)	926.1
28 (0x1C)	926.3	29 (0x1D)	926.5	30 (0x1E)	926.7	31 (0x1F)	926.9
32 (0x20)	927.1	33 (0x21)	927.3	34 (0x22)	927.5	35 (0x23)	927.7
36 (0x24)	927.9						

(Japan) Band ID 9, Channel setting of the Wi-SUN PHY Mode 11, 200 Kbps

Channel number	Frequency (MHz)						
0 (0x00)	920.8	1 (0x01)	921	2 (0x02)	921.2	3 (0x03)	921.4
4 (0x04)	921.6	5 (0x05)	921.8	6 (0x06)	922	7 (0x07)	922.2
8 (0x08)	922.4	9 (0x09)	922.6	10 (0x0A)	922.8	11 (0x0B)	923
12 (0x0C)	923.2	13 (0x0D)	923.4	14 (0x0E)	923.6	15 (0x0F)	923.8
16 (0x10)	924	17 (0x11)	924.2	18 (0x12)	924.4	19 (0x13)	924.6
20 (0x14)	924.8	21 (0x15)	925	22 (0x16)	925.2	23 (0x17)	925.4
24 (0x18)	925.6	25 (0x19)	925.8	26 (0x1A)	926	27 (0x1B)	926.2
28 (0x1C)	926.4	29 (0x1D)	926.6	30 (0x1E)	926.8	31 (0x1F)	927
32 (0x20)	927.2	33 (0x21)	927.4	34 (0x22)	927.6	35 (0x23)	927.8

(India) Band ID 4, Channel setting of the Wi-SUN PHY Mode 13, 50 Kbps

Channel number	Frequency (MHz)						
20 (0x14)	865.1	21 (0x15)	865.2	22 (0x16)	865.3	23 (0x17)	865.4
24 (0x18)	865.5	25 (0x19)	865.6	26 (0x1A)	865.7	27 (0x1B)	865.8
28 (0x1C)	865.9	29 (0x1D)	866	30 (0x1E)	866.1	31 (0x1F)	866.2
32 (0x20)	866.3	33 (0x21)	866.4	34 (0x22)	866.5	35 (0x23)	866.6
36 (0x24)	866.7	37 (0x25)	866.8	38 (0x26)	866.9		

(India) Band ID 4, Channel setting of the Wi-SUN PHY Mode 14, 100 Kbps

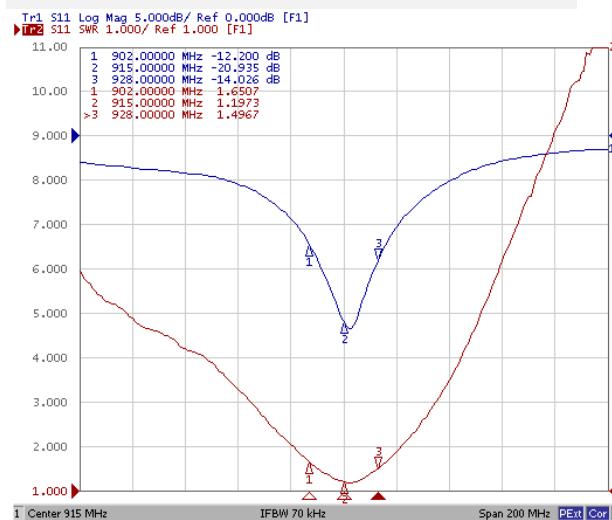
Channel number	Frequency (MHz)						
					865.1	11 (0x0B)	865.3
12 (0x0C)	865.5	13 (0x0D)	865.7	14 (0x0E)	865.9	15 (0x0F)	866.1
16 (0x10)	866.3	17 (0x11)	866.5	18 (0x12)	866.7	19 (0x13)	866.9

ANTENNA PERFORMANCE SPECIFICATION

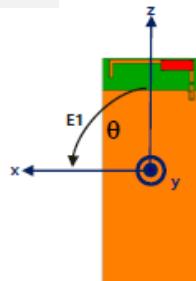
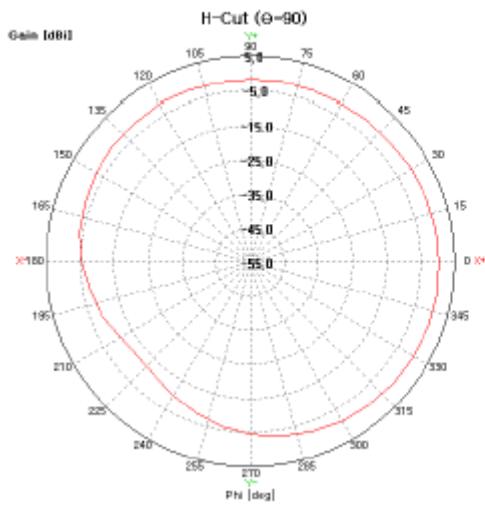
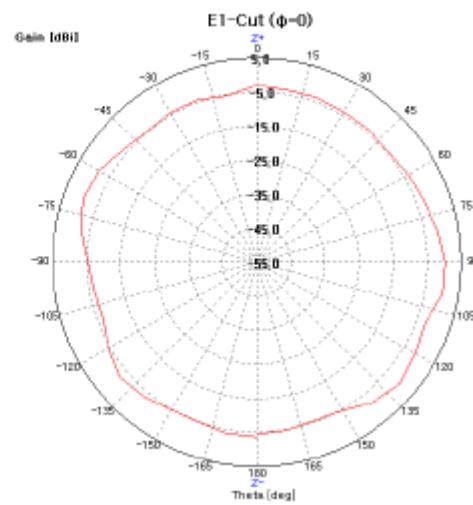
Gain Vs Frequency

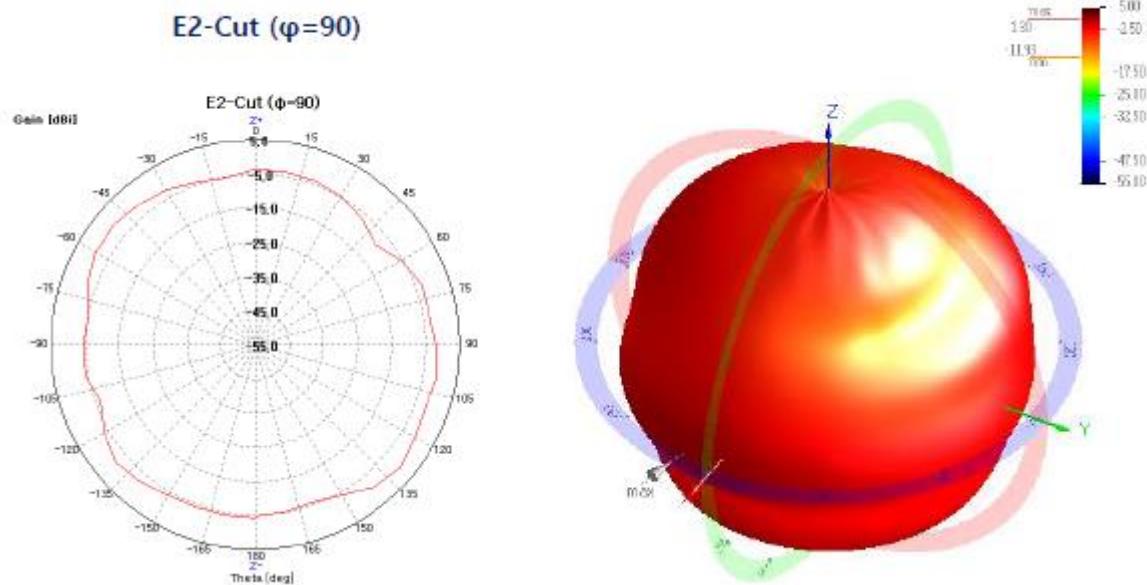
Freq. [MHz]	Peak Gain (dBi)	Avg. Gain (dBi)	Efficiency(%)
902	1.1	-2.9	51
915	1.3	-2.7	54
928	0.9	-3.4	46

Return Loss Vs Frequency

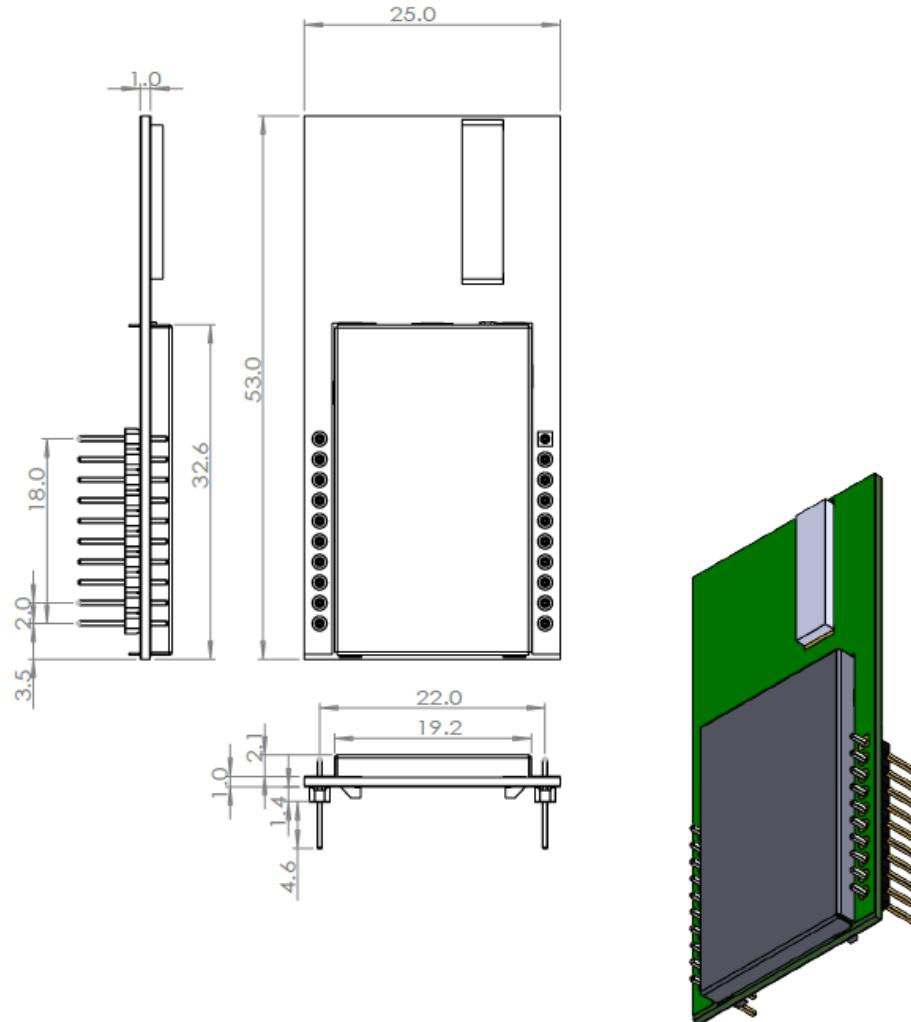


3D Radiation Pattern

H-Cut ($\theta=90$)E1-Cut ($\phi=0$)



MECHANICAL DIMENSIONS



Vizmo
FREEDOM FROM WIRES

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**Federal Communications Commission Interference Statement
(FCC ID 2BAF3-R6LPG1H28DA1)****FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20 cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is intended only for OEM integrators under the following conditions:

- The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- The transmitter module should not be used co-located with any other transmitter or antenna.

IMPORTANT NOTE:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in devices where the antenna may be installed such that 20 cm may be maintained between the antenna and users.

The final end product must be labeled in a visible area with the following:

Contains FCC ID: 2BAF3-R6LPG1H28DA1

This modular transmitter complies with the FCC rule Part 15.209. The modular transmitter specification is as below.

Frequency	Country	RED EIRP [dBm]	FCC conducted Peak Power [W]
902 MHz to 928 MHz	USA	-----	0.21429
863 MHz to 870 MHz	Europe	13.76	-----

(FCC) Notice to OEM Integrator:

This device is meant to be used only in host devices that meet the FCC RF exposure regulations , which means that the device is installed and used at the distance of 20 cm from persons. The end user manual must include FCC Part15 compliance statements related to the transmitter as shown in this manual.

Host manufacturer is responsible for compliance of host system with module installed with all other applicable requirements for the system such as Part15B Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The final product must use a physical label stating as

FCC ID: 2BAF3-R6LPG1H28DA1



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