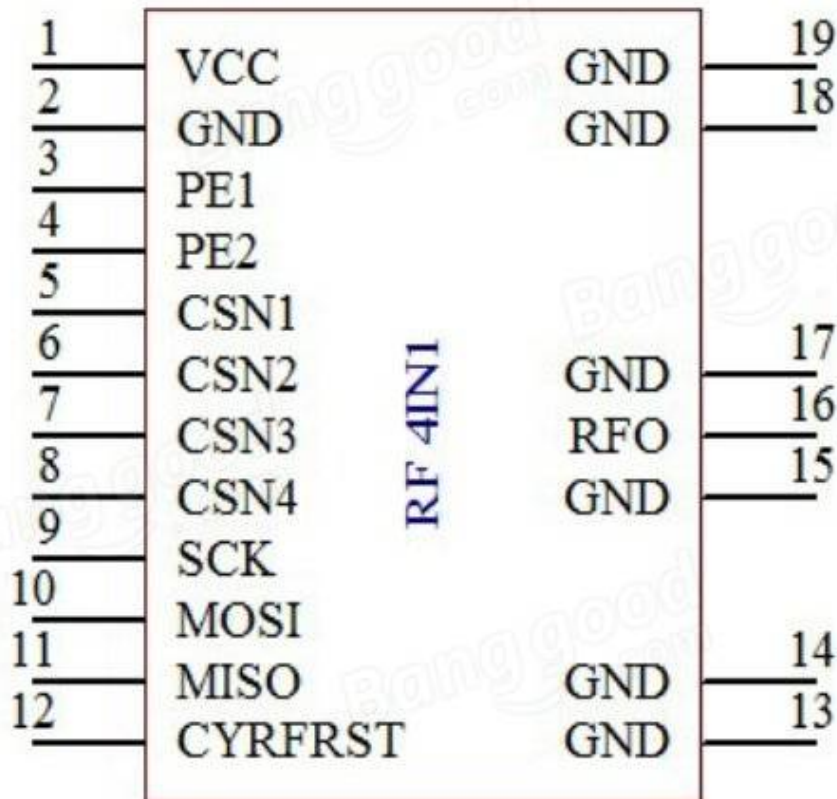


4 IN 1 RF module integrates four RF chips(CC2500, NRF24L01, A7105, CYRF6936) in one single PCB board. It supports more than 10 different protocols while working with MCU board, such as Frsky, Flysky, Hisky, Devo, DSM2, V2x2 and so on.

You can use arduino nano to DIY your own MCU board, it also can be used with walkera devo transmitter.

Description:

1. Arduino promini 5V/16Mhz(Protocols are using as witness the existing on board LED on B5 pin). It can be used also any setup with Atmega328P/16Mhz.
 2. A7105 module(X7105-D03 PA/LNA module, V911,V939 harvested TX modules)
 3. CC2500 PA/LNA module
 4. Nrf24L01 PA/LNA module
 5. Devo module(based on CYRF6936)
 6. AMS1117 -5V and AMS1117-3.3V, LDO voltage regulator or any other regulators over 800mA.
 7. Resistor 20K(between NRF_CE pin to Vcc)
 8. Caps 22-47uF(3 pcs on ldo's)
 9. Rotary dip switch 16 positions or DIP switch 4 positions this is required only in PPM mode.
- Now in the serial mode with er9x/ersky9x/opentx there is no need to use dial switch anymore.



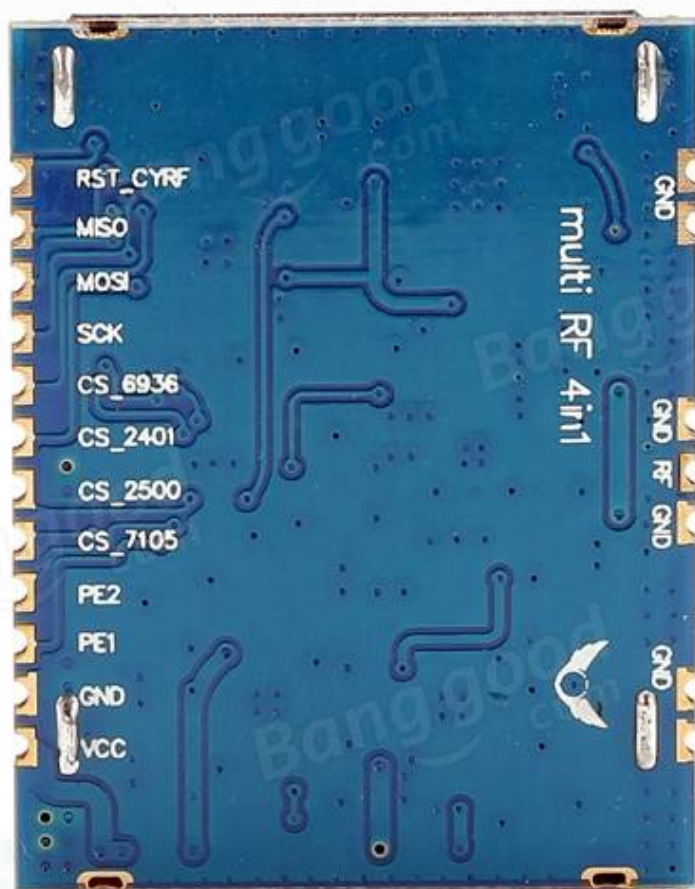
Pin function:

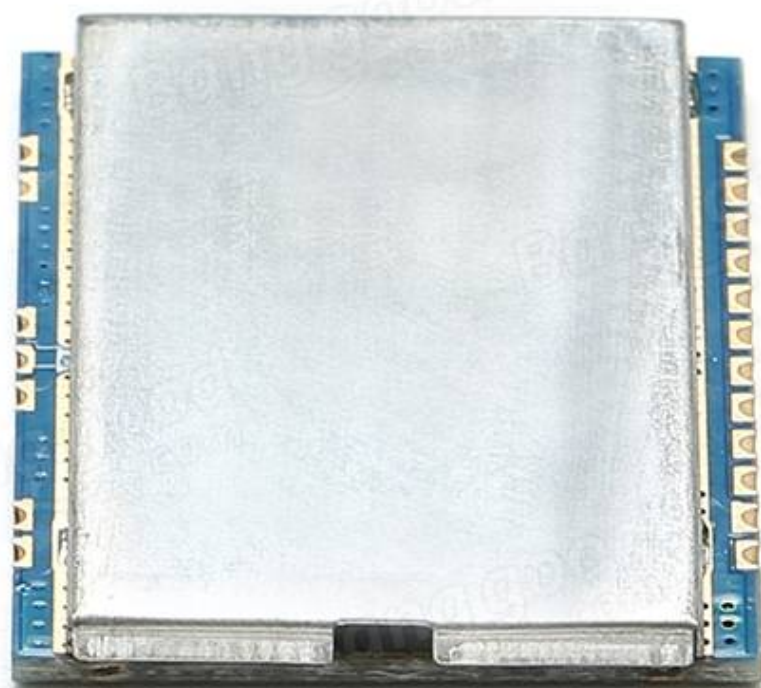
Number	Name	Property	Description
1	VCC	Power	3.3V Power supply
2	GND	Power	ground
3	PE1	input	Switch for RF chips, See the truth table
4	PE2	input	Switch for RF chips, See the truth table
5	CSN1	input	A7105 chip select
6	CSN2	input	CC2500 chip select
7	CSN3	input	NRF24L01 chip select
8	CSN4	input	CYRF6936 chip select
9	SCK	input	SPI clock signal
10	MOSI	input	SPI input for slave device



Multi RF 4in1







35	Hisky	FF120	Quad	NRF24L01	HiSky
36	Hisky	HMX120	Quad	NRF24L01	HiSky
37	HobbyKing	Q-Bot Micro	Quad	NRF24L01	HiSky
38	Hubsan	X4	Quad	A7105	Hubsan
39	Hubsan	H101 D/F	FP	A7105	Hubsan
40	Hubsan	H102 D/F	FP	A7105	Hubsan
41	Hubsan	H201 D/F	FP	A7105	Hubsan
42	Hubsan	H202 D/F	FP	A7105	Hubsan
43	Hubsan	H107C	Quad	A7105	Hubsan
44	Hubsan	H107L	Quad	A7105	Hubsan
45	Hubsan	H107D	Quad	A7105	Hubsan
46	Hubsan	H111	Quad	A7105	Hubsan
47	Hubsan	H301F	Plane	A7105	Hubsan
48	Hubsan	H302F	Plane	A7105	Hubsan
49	Hubsan	H303F	Plane	A7105	Hubsan
50	Hubsan	H304F	Plane	A7105	Hubsan
51	Huaxiang Toys	Sky Walker 8983	Quad	NRF24L01	YD717
52	JD	JXD 385	Quad	NRF24L01	V2x2
53	JD	JXD 388	Quad	NRF24L01	V2x2
54	JD	JXD 389	Quad	NRF24L01	YD717
55	JD	JXD 390	Quad	NRF24L01	YD717
56	JD	JXD 391	Quad	NRF24L01	YD717
57	JD	JXD 392	Quad	NRF24L01	V2x2
58	JD	JXD 393	Quad	NRF24L01	YD717
59	JIAYUAN	S-2	Quad	NRF24L01	V2x2
60	JJR/C	1000A	Quad	NRF24L01	V2x2
61	JJR/C	F180	Quad	NRF24L01	V2x2
62	JJR/C	F182	Quad	NRF24L01	V2x2
63	JJR/C	H8C	Quad	NRF24L01	V2x2
64	Joysway	Caribbean	Sailboat	A7105	Joysway
65	Joysway	Orion	Yacht	A7105	Joysway
66	Joysway	Dragon Force 65	Yacht	A7105	Joysway
67	Joysway	Explorer	Yacht	A7105	Joysway

68	Joysway	Force2 60	Catamaran	A7105	Joysway
69	Nincoair	Quadrone	Quad	NRF24L01	V2x2
70	Nine Eagles	YAK54	Plane	CYRF6936	J6Pro
71	Nine Eagles	P47	Plane	CYRF6936	J6Pro
72	Nine Eagles	Solo Pro 125A	CP	CYRF6936	J6Pro
73	Nine Eagles	Solo Pro 126 V2	CP	CYRF6936	J6Pro
74	Nine Eagles	Solo Pro 100D		CYRF6936	J6Pro
75	Nine Eagles	Solo Pro 287	CP	CYRF6936	J6Pro
76	Nine Eagles	Solo Pro 180		CYRF6936	J6Pro
77	Nine Eagles	Solo Pro 319	CP	CYRF6936	J6Pro
78	Nine Eagles	Solo Pro 125A	CP	NRF24L01	SLT
79	Nine Eagles	Solo Pro 260	FP	NRF24L01	Unsupported
80	Nine Eagles	Solo Pro 319	CP	NRF24L01	SLT
81	Ni Hui	U207	Quad	NRF24L01	YD717
82	Propel RC	Cloudquest			
83	Propel RC	Speedstar			
84	Sanlianhuan	SH 6043 Ladybug	Quad	NRF24L01	YD717
85	Sanlianhuan	SH 6044	Quad	NRF24L01	YD717
86	Sanlianhuan	SH 6046 Puffer	Quad	NRF24L01	YD717
87	Sanlianhuan	SH 6047 Scorpion	Y6	NRF24L01	YD717
88	Sanlianhuan	SH 6048 F22	Quad	NRF24L01	YD717
89	Sky Walker	HM-1306	Quad	NRF24L01	YD717
90	Skyartec	WASP Nano CP(X)	CP	CC2500	Skyartec
91	Skyartec	WASP 3X(V)	CP	CC2500	Skyartec
92	Skyartec	Butterfly	Quad	CC2500	Skyartec
93	Skyartec	Cessna RTF	Plane	CC2500	Skyartec
94	Skybotz	Mini UFO	Quad	NRF24L01	YD717
95	Skyline	YD717	Quad	NRF24L01	YD717
96	Syma	X1	Quad	A7105	Flysky
97	Syma	X2	Quad	NRF24L01	SymaX
98	Syma	X3	Quad	NRF24L01	YD717
99	Syma	X4	Quad	NRF24L01	YD717
100	Syma	X5C	Quad	NRF24L01	SymaX

101	Syma	X5C-1	Quad	NRF24L01	SymaX
102	Syma	X6	Quad	NRF24L01	YD717
103	Syma	X7	Quad	NRF24L01	SymaX
104	Syma	X8C	Quad	NRF24L01	SymaX
105	Syma	X11	Quad	NRF24L01	SymaX
106	Syma	X12	Quad	NRF24L01	SymaX
107	Toybase	L6036	Quad	NRF24L01	V2x2
108	Toybase	L6038	Quad	NRF24L01	V2x2
109	UDI	U816	Quad		Unsupported
110	UDI	U818	Quad		Unsupported
111	Walkera	QR Ladybird	Quad	CYRF6936	DEVO
112	Walkera	QR InfraX	Quad	CYRF6936	DEVO
113	Walkera	QR Scorpion	Y6	CYRF6936	DEVO
114	Walkera	QR Spacewalker	Octo	CYRF6936	DEVO
115	Walkera	Mini-CP	CP	CYRF6936	DEVO
116	Walkera	V120D02s	CP	CYRF6936	DEVO
117	Walkera	Super-CP	CP	CYRF6936	DEVO
118	Walkera	QR X350	Quad	CYRF6936	DEVO
119	Walkera	V120D02	CP	CYRF6936	WK2801
120	Walkera	V450D01	CP	CYRF6936	WK2801
121	Walkera	4G6S	CP	CYRF6936	WK2601
122	Walkera	4F200	CP	CYRF6936	WK2801
123	Walkera	4F200LM	CP	CYRF6936	DEVO
124	Walkera	Genius-CP WK	CP	CYRF6936	WK2801
125	Walkera	Genius-CP	CP	CYRF6936	DEVO
126	Walkera	4/6S	???	CYRF6936	WK2401
127	Walkera	Master-CP	CP	CYRF6936	DEVO
128	Walkera	V100D01	FP	CYRF6936	WK2401
129	Walkera	4G6	CP	CYRF6936	WK2801
130	Walkera	RX1202	12Ch Receiver	CYRF6936	DEVO
131	Walkera	RX1002	10Ch Receiver	CYRF6936	DEVO
132	Walkera	RX802	8Ch Receiver	CYRF6936	DEVO
133	Walkera	RX801	8Ch Receiver	CYRF6936	DEVO

134	Walkera	RX701	7Ch Receiver	CYRF6936	DEVO
135	Walkera	RX601	6Ch Receiver	CYRF6936	DEVO
136	WL TOYS	A949	Car	NRF24L01	V2x2
137	WL TOYS	A959	Car	NRF24L01	V2x2
138	WL TOYS	A969	Car	NRF24L01	V2x2
139	WL TOYS	A979	Car	NRF24L01	V2x2
140	WL TOYS	v911	FP	A7105	Flysky
141	WL TOYS	v911-Pro	FP	A7105	Flysky
142	WL TOYS	v912	FP	A7105	Flysky
143	WL TOYS	v912 Brushless Ed	FP	A7105	Flysky
144	WL TOYS	v913	FP	A7105	Flysky
145	WL TOYS	v913 Brushless Ed	FP	A7105	Flysky
146	WL TOYS	v915	FP	A7105	Flysky
147	WL TOYS	v929	Quad	A7105	Flysky
148	WL TOYS	v930	FP	NRF24L01	KN
149	WL TOYS	v922	CP	NRF24L01	HiSky
150	WL TOYS	v933	CP	NRF24L01	HiSky
151	WL TOYS	v939	Quad	A7105	Flysky
152	WL TOYS	v944	FP	NRF24L01	HiSky
153	WL TOYS	v949	Quad	A7105	Flysky
154	WL TOYS	v955	FP	NRF24L01	HiSky
155	WL TOYS	v959	Quad	A7105	Flysky
156	WL TOYS	v966	CP	NRF24L01	KN
157	WL TOYS	v977	CP	NRF24L01	KN
158	WL TOYS	v988	FP	NRF24L01	KN
159	WL TOYS	v202	Quad	NRF24L01	V2x2
160	WL TOYS	v212	Quad	NRF24L01	V2x2
161	WL TOYS	v222	Quad	NRF24L01	V2x2
162	WL TOYS	v252	Quad	NRF24L01	V2x2
163	WL TOYS	v252 Pro	Quad	NRF24L01	YD717
164	WL TOYS	v262	Quad	NRF24L01	V2x2
165	WL TOYS	v272	Quad	NRF24L01	V2x2
166	WL TOYS	v282	Quad	NRF24L01 ?	
167	WL TOYS	v292	Quad	NRF24L01 ?	
168	WL TOYS	v323	Hex	NRF24L01	V2x2
169	WL TOYS	v333	Quad	NRF24L01	V2x2
170	WL TOYS	v343	Quad	NRF24L01	YD717
171	WL TOYS	v353	Quad	NRF24L01	V2x2
172	WL TOYS	v393	Quad	NRF24L01	V2x2
173	WL TOYS	v626	Quad	NRF24L01	V2x2
174	WL TOYS	v636	Quad	NRF24L01	V2x2
175	WL TOYS	v646	Quad	A7105	Flysky
176	WL TOYS	v666	Quad	NRF24L01	V2x2
177	WL TOYS	v676	Quad	A7105	Flysky
178	WL TOYS	F929	Plane	A7105	Flysky
179	WL TOYS	F939	Plane	A7105	Flysky
180	WL TOYS	L959	Car	NRF24L01	V2x2
181	WL TOYS	L969	Car	NRF24L01	V2x2
182	WL TOYS	L979	Car	NRF24L01	V2x2
183	WL TOYS	L202	Car	NRF24L01	V2x2
184	WL TOYS	L212	Car	NRF24L01	V2x2
185	WL TOYS	L222	Car	NRF24L01	V2x2
186	XINXUN	X28	Quad	NRF24L01	YD717
187	XINXUN	X30	Quad	NRF24L01	YD717
188	XINXUN	X33	Quad	NRF24L01	YD717
189	XINXUN	X39	Quad	NRF24L01	YD717
190	XINXUN	X40	Quad	NRF24L01	YD717
191	YI ZHAN	X4	Quad	NRF24L01	V2x2
192	YI ZHAN	X6	Quad	NRF24L01	V2x2