

Products

WiFi 
- Front-end Module (FEM) (page_prd_new.aspx?Id=1)
- Power Amplifier (page_prd_new.aspx?Id=2)
- Low Noise Amplifier (page_prd_new.aspx?Id=3)
- Switch (page_prd_new.aspx?Id=6)
Mobility 
IoT 
Automotive 

WiFi

Switch

RichWave offers a complete line of switch products for WiFi connectivity solutions, suitable for AP routers, consumer PC/laptops, mobile/portable phones, and IoT applications.

RichWave leverages multi-process technologies, including GaAs/SOI CMOS, to optimize insertion loss (IL) and isolation (ISO) performance and provide the most cost effective customer solutions.

RichWave is the only supplier for WiFi switches using the SOI CMOS process.

Advantages of SOI CMOS switches include:

- High ESD protection: > 1KV (HBM)
- Economical silicon process improves profitability
- Pin compatibility with traditional GaAs switches provides easy replacement
- Option to eliminate DC blocking capacitor in RF ports significantly reduces PCB size

RichWave provides a wide variety of WiFi switch form factors:

- Package type: QFN and WLCSP
- Low profile: thin to 0.30mm (max)
- Power capability: low power to high power (P = 0.1dB-37dBm)



CATV Switch	>
Radar Sensor	>
Filter	>
Broadcasting (page_prd_new.aspx?Id=7)	
Wireless Video/Audio (page_prd_new.aspx?Id=8)	

Normal Power Switch for WiFi

Part No.	Freq (GHz) ↓↑	Input P1dB (dBm) ↓↑	Vctrl (V) ↓↑	Package (mm, typ) ↓↑
	▼	▼	▼	▼
SPDT				
RTC6603SP	0.05~3.0	32	1.6~3.6	SC70
RTC6603U	0.05~3.0	31.5	1.6~3.6	SC70
RTC6607SP	0.1~6.0	32 30	1.8~3.6	6L QFN 1.0x1.0x0.35
RTC6607U	0.1~6.0	32	1.6~3.6	6L QFN 1.0x1.0x0.375
RTC6608OSP	0.03~6.0	33 32	1.6~3.6	6L QFN 1.0x1.0x0.375
RTC6608OU	0.03~7.125	32	1.6~3.6	6L QFN 1.0x1.0x0.375
RTC6609SP	0.1~6.0	32 31	1.8~3.6	6L QFN 1.5x1.5x0.35
RTC6609U	0.1~6.0	31	1.6~3.6	6L QFN 1.5x1.5x0.35
RTC7603F	0.5~6.0	32 --	1.6~3.6	WLCSP 0.504x0.609x0.30
RTC7608	0.1~6.0	32 31	1.2~3.6	6L QFN 1.0x1.0x0.35
RTC7608D	0.1~2.4	33	1.0~3.6	6L QFN 1.0x1.0x0.35
RTC7608U	2.4~7.125	32	1.0~3.6	6L QFN 1.0x1.0x0.375

Part No.	Freq (GHz) ↓↑	Input P1dB (dBm) ↓↑	Vctrl (V) ↓↑	Package (mm, typ) ↓↑
RTC7611	0.1~6.0	32 31	1.6~3.6	6L QFN 1.0x1.0x0.35
RTC7614	0.01~6.0	31	1.2~3.6	6L QFN 1.0x1.0x0.55
RTC8612G	0.1~6.0	37 35 34	1.6~3.0	12L QFN 2.0x2.0x0.55
RTC8612K	0.1~6.0	37 34	1.6~3.0	12L QFN 2.0x2.0x0.55
RTC66008F	0.5~6.0	32 31	1.6~3.6	WLCSP 0.504x0.609x0.30
SP3T				
RTC6617S	0.1~6.0	29 26	1.6~3.6	8L QFN 1.5x1.5x0.45
RTC6617SP	0.1~6.0	29 27	1.6~3.6	8L QFN 1.5x1.5x0.45
RTC6617U	0.1~6.0	30 27 --	1.0~3.6	8L QFN 1.5x1.5x0.45
RTC7605F	0.5~3.0	32	2.5~3.6	WLCSP 0.605x0.605x0.28
RTC7610	0.1~7.125	33 32 --	1.6~3.6	8L QFN 1.1x1.1x0.29
RTC66014	0.1~7.125	32	1.6~3.6	8L QFN 1.5x1.5x0.45
DPDT				
RTC6615H	2.4~2.5 4.9~6.0	31	1.6~3.6	6L QFN 1.5x1.5x0.55

Part No.	Freq (GHz) ↓↑	Input P1dB (dBm) ↓↑	Vctrl (V) ↓↑	Package (mm, typ) ↓↑
RTC66015	0.1~7.2	31	1.0~4.0	6L QFN 1.5x1.5x0.52

High Power Switch for WiFi

Part No.	Freq (GHz) ↓↑	Input P1dB (dBm) ↓↑	Vctrl (V) ↓↑	Package (mm, typ) ↓↑	F
	▼	▼	▼	▼	
SPDT					
RTC6619HE	0.5~7.125	40	1.6~3.6	6L QFN 1.5x1.5x0.55	P
RTC6619SP	0.5~6.0	37 34	1.6~3.6	6L QFN 1.5x1.5x0.55	P
RTC6619U	0.5~6.0	34	1.6~3.6	6L QFN 1.5x1.5x0.55	P
SP4T					
RTC66010	0.5~7.125	37	1.6~3.6	10L QFN 1.1x1.5x0.375	P

(index.aspx)

SITE MAP (sitemap.aspx)

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([https://www.youtube.com/channel/UCbj4-AxD_nbmPLMaKVWBalg/videos?](https://www.youtube.com/channel/UCbj4-AxD_nbmPLMaKVWBalg/videos?disable_polymer=1)

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