



RF Solutions for WLAN

Spring 2004





Skyworks — Leading Supplier of WLAN Semiconductor Solutions

Wireless Local Area Networks (WLANs) combine data connectivity with user mobility, bringing benefits in productivity, convenience, and cost compared to the traditional LAN. For these advantages to be realized, WLANs must deliver signal integrity and quality data transmission.

Skyworks' front-end RF devices can assure this type of performance. Skyworks' switch modules are the industry's first choice, and our WLAN front-end module family supports any 802.11 combination or application including several frequency bands and multiple modulation techniques. Skyworks is unique among wireless LAN semiconductor suppliers in our ability to combine industry-leading products such as our power amplifiers, switches and filter functions into a single convenient module that dramatically reduces system design time and cost. These high linearity, high performance, and low cost modules enable the development of complete architectures with 20 to 40 fewer components, saving valuable space in PCMCIA, Mini PCI, USB and compact flash platforms. From individual components to RF modules, Skyworks is the best source for WLAN front-end module products.

At Skyworks we turn complexity into simplicity, and simplicity into your competitive advantage.

New products are continually being introduced at Skyworks. Visit our web site for the latest information at www.skyworksinc.com. For additional information, contact your local sales office or email us at sales@skyworksinc.com.



WLAN Front-End Modules



Switches



RF Subsystems



Discrete and Passive Components

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WLAN Standards

802.11b

Frequency Range (Power)	2.4–2.4835 (1 W)
Air Access	Direct Sequence Spread Spectrum (DSSS), Using Complementary Code Keying (CCK)
Data Rate	Up to 11 Mbps

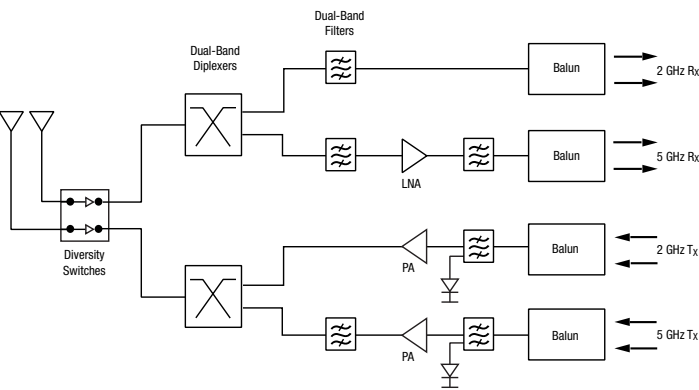
802.11g

Frequency Range (Power)	2.4–2.4835
Air Access	Orthogonal Frequency Division Multiplexing (OFDM)
Data Rate	Up to 54 Mbps

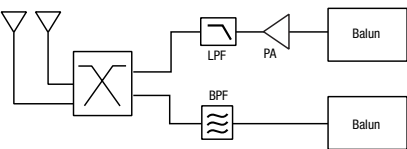
802.11a (HiperLAN2 Similar)

Frequency Range (Power)	5.150–5.250 GHz (50 mW) 5.250–5.350 GHz (250 mW) 5.725–5.825 GHz (1 W)
Air Access	Orthogonal Frequency Division Multiplexing (OFDM)
Data Rate	Up to 54 Mbps

Dual-Band WLAN 802.11a, b, g



Single-Band WLAN 802.11a, b, g



Front-End Modules for WLAN

Part Number	802.11 WLAN Standard	Frequency (GHz)	Description	T _X Gain (dB)	T _X Linear Power (dBm)	R _X Gain (dB)	Package (mm)
SKY65200	b, g a	2.40–2.50 4.90–5.90	Transmit/Receive Dual-Band Front-End Module	29 30	20, 15 13	-4.0 10.0	15 x 15 x 1.7
SKY65201	b g	2.04–2.50	Transmit/Receive Single-Band Front-End Module	30 30	21 16	-3.7 -3.7	8 x 10 x 1.7 Laminate
SKY65202	a	4.90–6.00 Front-End Module	Transmit/Receive Single-Band	30	15	12	8 x 10 x 1.7 Laminate
SKY65203	b g	2.40–2.50	Transmit/Receive Single-Band Front-End Module	30 30	21 16	-3.7 -3.7	8 x 10 x 1.7 Laminate
SKY65205	b g	2.40–2.50	Transmit/Receive Single-Band Front-End Module	27 27	20 16	-3.0 -3.0	6 x 6 x 1.7 Laminate
SKY65208	b g	2.40–2.50	Transmit/Receive Single-Band Front-End Module	27 27	20 16	-2.0 -2.0	6 x 6 x 1.7 Laminate
SKY65209	b g	2.40–2.50	Transmit/Receive Single-Band Front-End Module	27 27	20 16	-2.0 -2.0	6 x 6 x 1.7 Laminate

WLAN Power Amplifiers

Part Number	802.11 WLAN Standard	Frequency (GHz)	Description	Gain (dB)	P _{OUT} (dBm)	Saturated P _{OUT} (dBm) Max.	Bias Voltage V _D (V)	Current Consumption (mA)	Package (mm)
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Power Amplifiers for WLAN

AP178-321	b, g	1.80–2.50	WLAN PA	20	26	27	2.5–4.5	170	QFN-12 3 x 3 Surface Mount
AP172-317	b, g	1.80–2.50	WLAN PA	33	27	27	2.7–5.0	220	QFN-16 4 x 4 Surface Mount
AP163-317	b, g	1.80–2.50	WLAN PA	18	26	28	2.7–5.0	170	QFN-16 4 x 4 Surface Mount
AP157-317	b	1.80–2.50	WLAN PA	18	27	31	2.7–5.0	450	QFN-16 4 x 4 Surface Mount
SKY65132	b, g	2.40–2.48	WLAN PA	23	28	30	3.3	550	16-lead 4 x 4 MCM Surface Mount
SKY65131-11	b, g	2.40–2.48	WLAN PA	26	26	29	3.3	330	16-lead 4 x 4 MCM Surface Mount

Part Number	802.11 WLAN Standard	RF Frequency (MHz)	P ₁ dB (dBm)	Gain (dB)	Output IP3 (dBm)	Supply Voltage (V)	Power Added Efficiency (%)	Quiescent Current (mA)	Noise Figure (dB)	Test Frequency (MHz)	Package (mm)
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Ultra-Linear PA Drivers

CX65003-12	b, g	1400–2500	24.5	11.5	48	+5	38	120	5.0	1960 5.994 x 4.928	8-pin SOIC
SKY65004-11	b, g	250–2500	24.0	14.0	42	+5	48	110	4.5	1960	SOT-89

DC–6 GHz Plastic Packaged and Chip — SPDT

Part Number	802.11 WLAN Standard	Frequency (GHz)	Description	Insertion Loss Range (dB) Typ.	Isolation Range (dB) Typ.	IP3 > 0.5 GHz (dBm) Typ.	Package
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Typical Power Rating 27 dBm — General Purpose

AS213-92	b	0.15–3.0	PHEMT Dual +3 V CTL	0.25–0.50	35–19	40	SC-70 6-lead
AS214-92	b	0.10–3.0	PHEMT Dual +3 V CTL	0.25–0.40	33–25	40	SC-70 6-lead
AS215-92	b	0.10–3.0	PHEMT Single +3 V CTL	0.90–0.50	35–20	40	SC-70 6-lead
AS222-92	b	0.10–3.0	PHEMT Dual +3 V CTL (AS213-92 with AS179-92 Logic)	0.25–0.50	35–19	40	SC-70 6-lead

Typical Power Rating 30 dBm

AS169-73	b, g	DC–2.5	PHEMT Dual +3 V CTL	0.30–0.50	30–24	43	SOT-6
AS179-92	b, g	DC–3.0	PHEMT Dual +3 V CTL (AS169-73 in -92)	0.30–0.55	30–24	43	SC-70 6-lead
AS179-92LF	b, g	DC–3.0	PHEMT Dual +3 V CTL (AS169-73 in -92)	0.30–0.55	30–24	43	SC-70 6-lead
AS179-000	b, g	DC–3.0	PHEMT Dual +3 V CTL	0.30–0.55	30–24	43	Chip
AS211-334	b, g	DC–4.0	PHEMT Dual +3 V CTL	0.30–0.50	27–22	43	LGA-6 1.5 x 1.2 mm
AS200-313	a	5.0–6.0	PHEMT (WLAN) Dual +3 V CTL	1.20	25	50	QFN-6
AS225-313	a, b, g	0.1–6.0	PHEMT (WLAN) Dual +3 V CTL	0.55	23	48	QFN-6

DC–6 GHz Plastic Packaged and Chip — Multiport

Part Number	802.11 WLAN Standard	Frequency (GHz)	Description	Insertion Loss Range (dB) Typ.	Isolation Range (dB) Typ.	IP3 > 0.5 GHz (dBm) Typ.	Package
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Typical Power Rating 27 dBm

AS218-321	b, g	DC–6.0	PHEMT Transfer Switch	1.00–1.25	45–24	50	QFN-12
AS218-000	b, g	DC–6.0	PHEMT Transfer Switch	1.00–1.25	40–24	50	Chip
AS224-340	a, b, g	2.0–3.0	PHEMT WLAN Dual-Band T/R Transfer Switch	1.30–1.60 1.80–2.00	28–18 28–18	50 50	QFN-20

Wireless Infrastructure RF/IF ICs

Dual Fractional-N Synthesizers/PLLs

Part Number	WLAN Standards	Frequency (MHz)	Main/RF Frequency (MHz)	Aux./IF @ 10 kHz Offset (dBc/Hz)	Phase Noise Step Set Time (μs)	Large Freq. Boundary Spur (dBc)	Integer-N Supply Voltage (V)	Charge Pump Voltage (V)	Supply Package (mm)
CX72302	a, b, g	100–6100	1000	-80 @ 6 GHz Inband	10/Loop BW	-55 to -65	2.7–5.0	2.7–3.3	28-pin EP TSSOP 9.7 x 6.4
CX74038-12, CX74038-71	b, g	100–2600	800	-85 @ 2.4 GHz Inband	10/Loop BW	-30	2.6–3.6	2.6–3.6	20-pin TSSOP 9.7 x 6.4 and 24-pin CSP 3.5 x 4.5

Discrete and Passive Components

Varactor Diodes

Part Number	WLAN Standards	V_B $I_R = 10 \mu A$ (V) Min.	I_R $V_R (20 nA)$	C_T $V_R = 0.5 V$ (pF) Typ.	C_T $V_R = 2.5 V$ (pF)	C_R $0.5 V / 2.5 V$ Min.	R_S 900 MHz (Ω) Max.
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Plastic Packaged Hyperabrupt Junction Silicon Varactors

SMV1763-079	a, b, g	10	8 V	6.2-7.2	2.3-2.9	2.3	0.7
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PIN Diodes

Part Number	WLAN Standards	V_B $I_R = 10 \mu A$ (V) Min.	C_T $V_R = 30 V$ $F = 1 MHz$ (pF) Max.	$V_F @$ $I_F = 10 mA$ (V) Typ.	R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω) Max.	R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω) Max.	Typical Carrier Lifetime $I_F = 10 mA$ (nsec)
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Plastic Packaged Switching Silicon PIN Diodes

SMP1345 Series	a, b, g	50	0.20 ($V_R = 5 V$)	0.89	3.5 Typ.	2	100
SMP1321 Series	a, b, g	100	0.25	0.85	3.0 Typ.	2	400
SMP1340 Series	a, b, g	50	0.30 ($V_R = 5 V$)	0.88	1.7 Typ.	1.2	100

Discrete and Passive Components

Schottky Diodes

Part Number	WLAN Standards	$V_B I_R = 10 \mu A$ (V) Min.	$I_R V_R = 1 V$ (nA) Typ.	$V_F I_F = 1 mA$ (mV) Max.	$C_T V_R = 0 V$ (pF) Max.	$R_T I_F = 10 mA$ (Ω) Max.
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Plastic Packaged Silicon Mixer and Detector Diodes

SMS7621 Series	a, b, g	2	80	320	0.28	18
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Part Number	WLAN Standards	$V_B I_R = 100 \mu A$ (V) Min.	$V_F I_F = 1 mA$ (mV) Max.	$C_T V_R = 0 V$ (pF) Max.	$R_T I_F = 10 mA$ (Ω) Max.
SMS7630 Series	a, b, g	1	240	0.35	22 Typ.

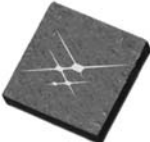
Attenuators

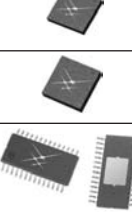
Part Number	WLAN Standards	Frequency (GHz)	Description	Insertion Loss Range (dB) Typ.	Attenuation Range (dB) Typ.	IP3 > 0.5 GHz (dBm) Typ.	Package
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IC Voltage Variable — FET Based

AV110-73	b, g	1.7–2.5	Single, +3 V CTL Rev. Transfer	3.5–3.8	32–27	12	–
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Semiconductor Plastic Package Selection Guide

Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
-508, 518	LGA		1.47 x 1.23 x 0.70
-334	LGA-6		1.50 x 1.20 x 0.80
-079	SC-79		1.60 x 0.80 x 0.60
-335	QFN-6 (2 x 2)		2.00 x 2.00 x 0.90
-313	QFN-6		2.00 x 3.00 x 1.00
-92	SC-88		2.10 x 2.00 x 0.95
-015, -016, -017, -019, -020, -021, -022, -023, -026, -32	SOT-143		2.37 x 2.92 x 1.00
-72	SOT-23 5L		2.80 x 2.90 x 1.18
-73	SOT-23 (6-lead)		2.80 x 2.90 x 1.18
-321	QFN (3 x 3)		3.00 x 3.00 x 0.75
-317	QFN-16 (4 x 4) 1.47 mm Paddle		4.00 x 4.00 x 1.00
-340	QFN-20 (4 x 4) 2.1 mm Paddle		4.00 x 4.00 x 0.75
-307	QFN-16 (4 x 4) 1.7 mm Paddle		4.00 x 4.00 x 0.90
-86	MSOP-10		4.90 x 3.00 x 0.96
-310	QFN-32 (5 x 5) 3.3 mm Paddle		5.00 x 5.00 x 0.90
-80	SSOP-16		6.00 x 4.90 x 1.60
-87	TSSOP-16		6.40 x 5.00 x 1.00
-85	SSOP-20		7.80 x 7.20 x 1.90
-25	SOIC-16		10.00 x 6.00 x 1.70
N/A	WLAN RF Module		15.00 x 15.00 x 1.7

Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
N/A	CSP		3.50 x 4.50
CX74038-71	24-Pin CSP		4.50 x 3.50 x 1.04
N/A	LGA		5.00 x 5.00
N/A	RF-LGA		5.00 x 5.00
CX65003-12	8-lead SOIC		5.99 x 4.93 x 1.57
N/A	RF-LGA		6.00 x 6.00
N/A	EP-SSOP 28L		6.40 x 9.70
CX74038-12	20-lead TSSOP		6.50 x 6.40 x 1.20
N/A	RF-LGA		7.00 x 7.00
N/A	TQFP		7.00 x 7.00
N/A	RF-LGA		8.00 x 8.00
N/A	RF-LGA		9.00 x 9.00
CX72302-11	28-lead TSSOP		9.70 x 6.40 x 1.10
N/A	FPBGA, FPBGA 100L, RF-LGA		10.00 x 10.00

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