Triple Band Transceiver IC

CXA3361AGG

SONY

W-CDMA / UMTS HSDPA RF Transceiver

CXA3361AGG is the third generation single chip transceiver developed by Sony to support the Global 3G cellular phone market. The CXA3361AGG supports the multiple UMTS and W-CDMA bands I, II, III, IV, V, VI, VIII and IX, providing solutions to most global band requirements from Japan, Asia, North America and Europe.

Applications

- UMTS / W-CDMA release 99 and 5 (HSDPA) compliant

Features

❑ General

- Direct Conversion Architecture reduces external part count
- Integrated matching circuit (MIX_IN/PA driver Output)
- Synthesizer circuit contains VCO inductors/varactors
- Advanced LPF(root raised cosine filter) for channel select (RX)
- 26 / 19.2MHz clock operation supported
- Compressed mode supported
- 3-wire serial bus control

❑ TX Section

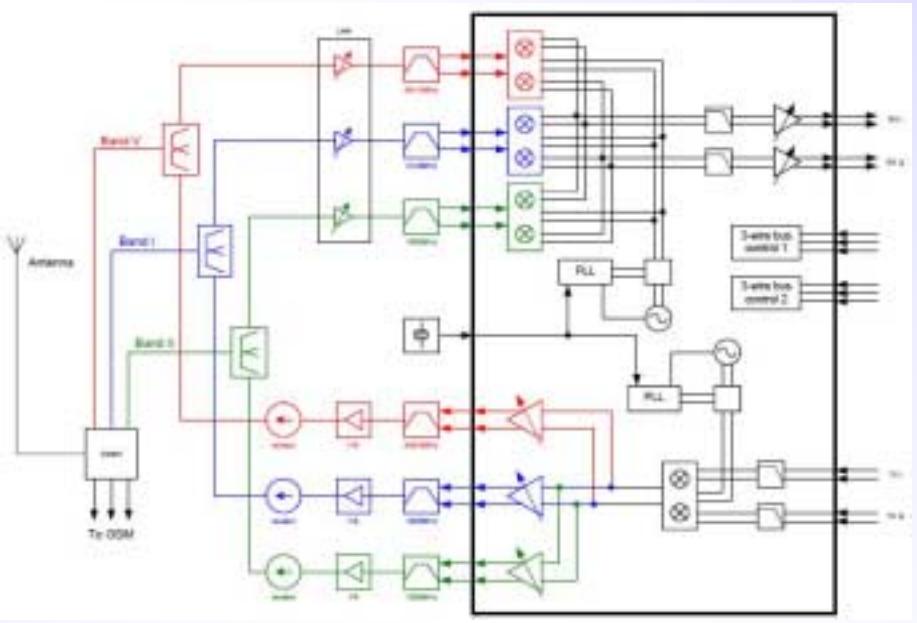
- Direct modulation transmitter
- Integrated VGA
- Minimum dynamic range 80dB
- Integrated matching circuit (TX OUT)
- HSDPA mode

❑ RX Section

- Direct conversion receiver
- Integrated channel filter
- Integrated DC-offset compensation
- Integrated matching circuit (MIX IN)

Technology

- Based on Sony's SiGe BiCMOS technology
- Supply voltage range 2.7 to 3.0 V
- Operating temperature range –25 to 85 C
- 6.0 x 6.0 mm, 0.5 mm pitch, t=1 mm max
- 97 pin VFVGA package
- Green product, Pb and Halogen free



Sony RF Transceiver Product Line

- CXA3359ER Global single band
- CXA3358ER Japan dual band
- CXA3360GG Japan triple band
- CXA3361GG US triple band
- CXA3361AGG Global phone

			UMTS	WCDMA (Japan)	US	Global
Band	**TX**	**RX**	CXA3359ER	CXA3358ER	CXA3360GG	CXA3361GG	CXA3361AGG
I	1920-1980	2110-2170	X	X	X	X	X
II	1850-1910	1930-1990	—	—	—	X	X
III	1710-1785	1805-1880	—	—	—	—	X
IV	1710-1755	2110-2155	—	—	—	—	X
V	824-849	869-894	—	—	—	X	X
VI	830-840	875-885	—	X	X	X	X
VII	2500-2570	2620-2690	—	—	—	—	—
VIII	880-915	925-960	—	—	—	—	X
IX	1750-1785	1845-1880	—	—	X	—	X

www.sony.net/Products/SC-HP/