

TripleTraC™

Product Brief, Advance Information

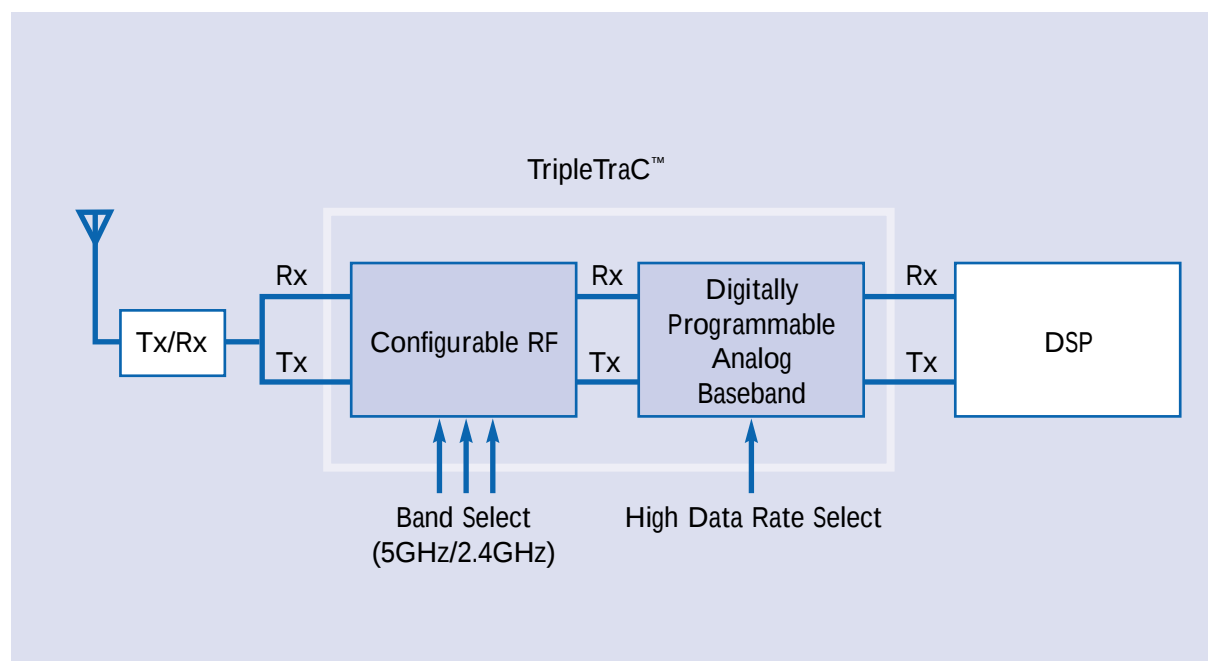
Product Description

The TripleTraC™ is a single radio system chip supporting multiple wireless LAN standards, the IEEE 802.11a, 802.11b and HIPERLAN/2 standards. The multi-standard approach allows for easy migration from current 11Mbit/sec 802.11b networks to faster 54Mbit/sec 802.11a/HIPERLAN/2 networks. It also allows for co-existence of different standards into portable and stationary devices which makes the converge between the WAN/LAN/PAN standards possible. The transceiver is manufactured in a 0.18μm CMOS process.

Key Features

1. A cost effective wireless LAN solution.
2. CMOS 0.18μm implementation
3. Compliant with IEEE802.11a, IEEE802.11b, ETSI HIPERLAN/2 air interface.
4. Requires no external passive components.
5. Fully integrated VCOs and loop filters.
6. Low voltage supply
7. Low power consumption.

Application example



Key Data Characteristics

General Specification

Parameter	Min	Typ	Max	Unit
Supply Voltage, VDD		1.8		V
Supply Voltage, I/O		3.3		V
Supply Current, Transmit mode		40		mA
Supply, Current, Receive mode, 5GHz		50		mA
Supply, Current, Receive mode, 2GHz		40		mA

RF Specification

Parameter	Min	Typ	Max	Unit
Frequency range, 802.11a, lower and middle band	5.150		5.350	GHz
Frequency range, 802.11a, upper band	5.725		5.825	GHz
Frequency range, HIPERLAN/2, lower and middle band	5.150		5.350	GHz
Frequency range, HIPERLAN/2, upper band	5.470		5.725	GHz
Frequency range, 802.11b	2.400		2.485	GHz

Receiver, IEEE 802.11a and HIPERLAN/2

Parameter	Min	Typ	Max	Unit
Sensitivity @ PER 10%		-85	-82	dBm
Cutoff level @ PER 10%		-30	0	dBm

Receiver, IEEE 802.11b

Parameter	Min	Typ	Max	Unit
Sensitivity @ FER 8%		-76	-73	dBm
Cutoff level @ FER 8%		-10	0	dBm

Transmitter, IEEE 802.11a and HIPERLAN/2

Parameter	Min	Typ	Max	Unit
RF Output Power		0		dBm

Transmitter, IEEE 802.11b

Parameter	Min	Typ	Max	Unit
RF Output Power		0		dBm

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