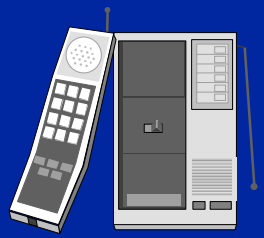
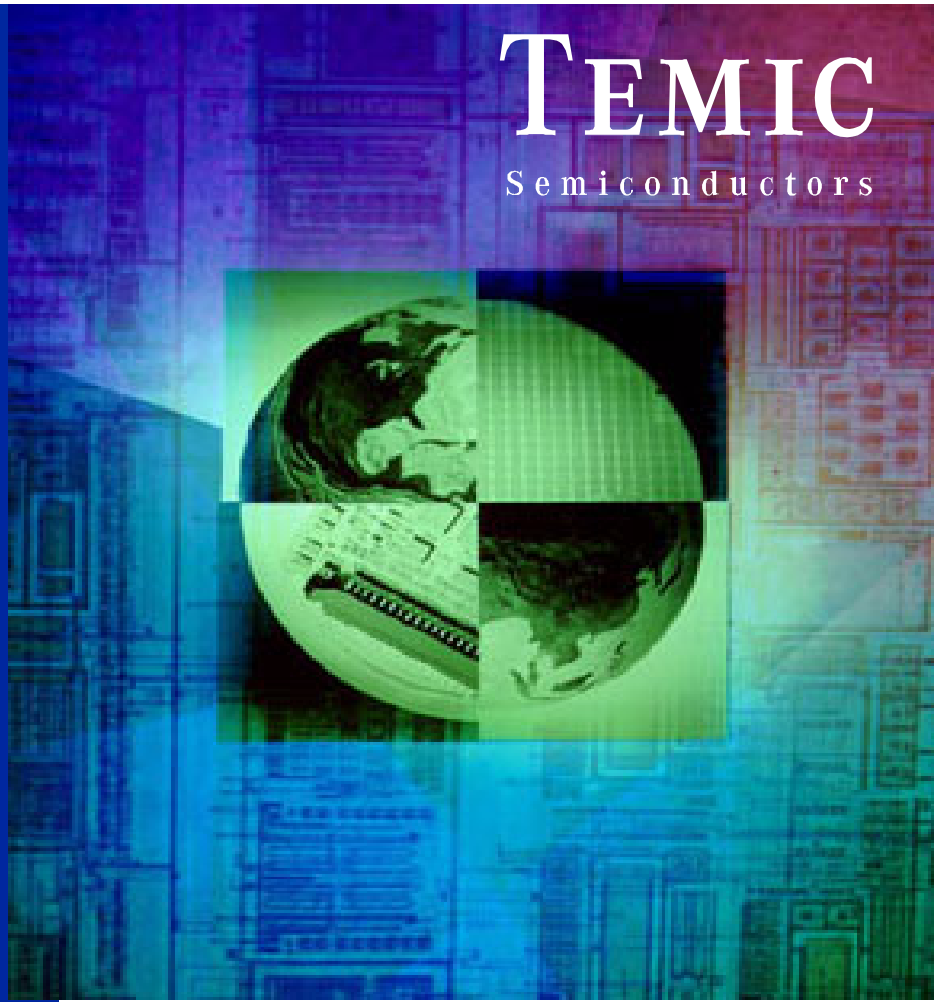


RF Chipset

for

900MHz Digital Cordless Telephone



The Components

CT2/CT2+

U7001BG	GaAs Frontend
U2783B	Twin PLL
U2760B	RX/TX
U3770M	I/Q Modulator

Narrow Band

U7001BG	GaAs Frontend
U2783B	Twin PLL
U2762B	RX/TX

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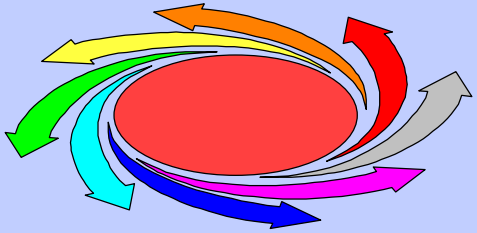
The Functions

- **U7001BG** GaAs frontend with LNA, PA, Antenna switch
  PA o/p: 16 dBm/3V, 18 dBm/5V; SS0 20
- **U2760B** RX/TX IC for CT2/CT2+, 3 V supply, SSO28
- **U2762B** RX/TX IC for Narrow Band, 3 V supply, SSO28
- **U2783B** Twin PLL, 3 V/10 mA, f_{max} 400/1250 MHz, SSO20
- **U3770M** I/Q modulator for CT2/CT2+, 3 V supply, SO16

Features and Benefits



Features

- Optimized RF chipset for CT2/NR
- 3-Volt low current design
- Adjust.-free, few extern. components
- Design-in support, test boards

Benefits

- Short design-in time, low risk
- Operation with 2 or 3 batteries, long talk time
- Easy to manufacture, cost saving
- Short time-to-market

Chipset current consumption at 3Volt

	RX mode	TX mode
U7001BG	4 mA	35 mA
U2762B	20 mA	17 mA
U2783B	10 mA	10 mA
Ext. VCO1	1.5 mA	1.5 mA
• Total	35.5 mA	63.5 mA

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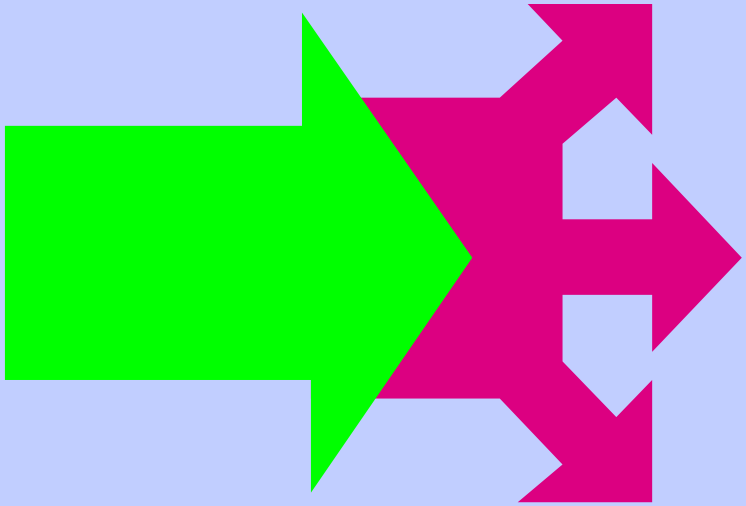
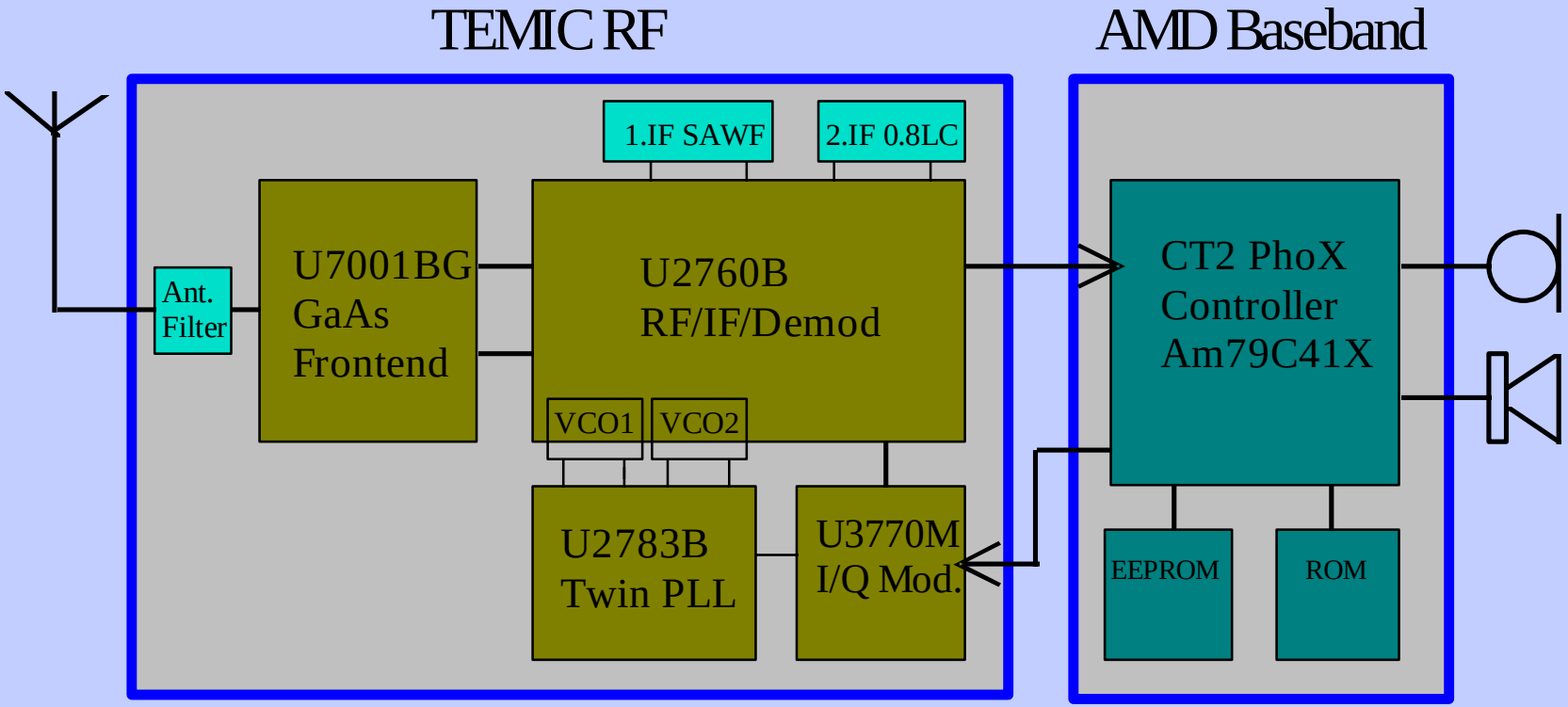
Key Applications

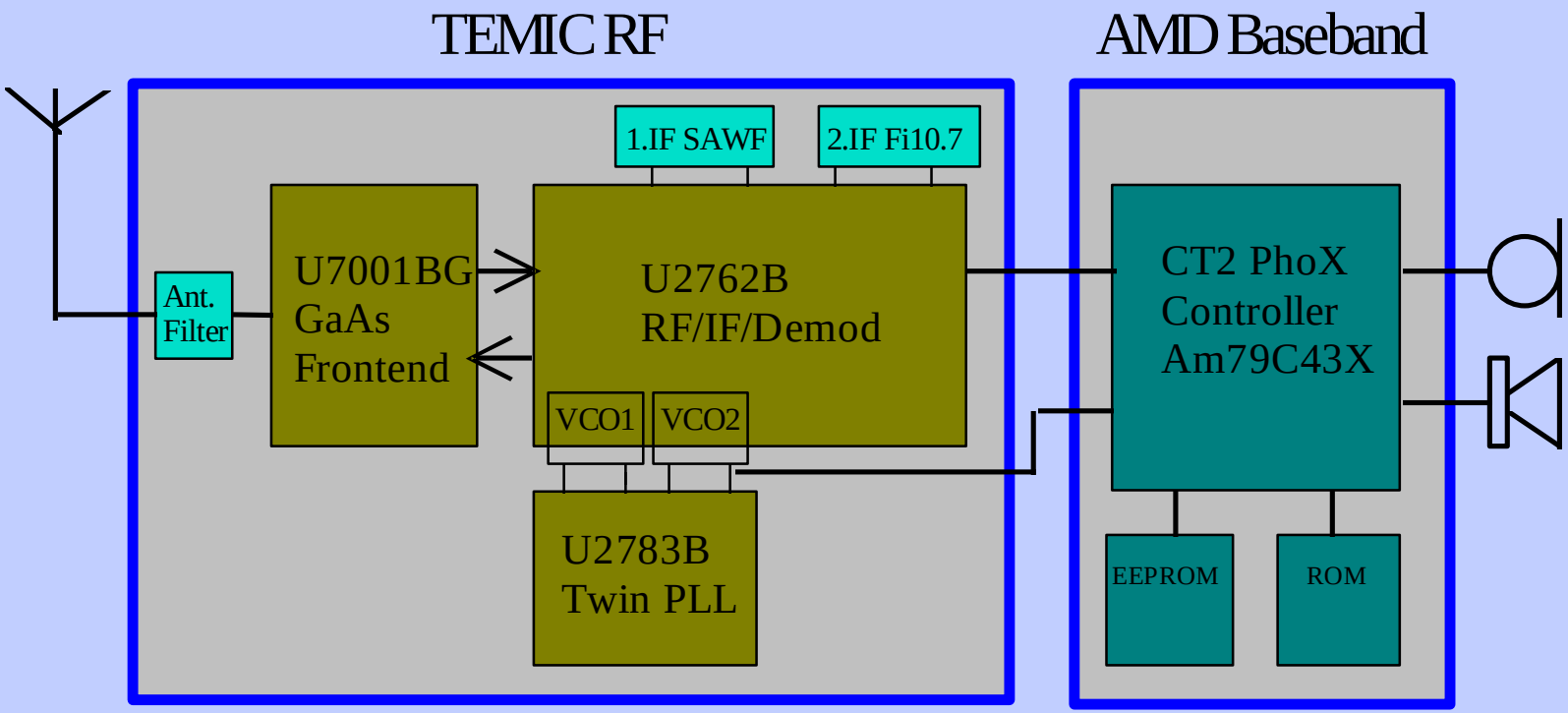


- Digital Cordless Phone (NR), NA
- CT 2+ Digital Cordless Phone, NA
- CT 2 Europe , Asia/Pacific

Block diagram CT2 application



Block diagram Narrow Band application



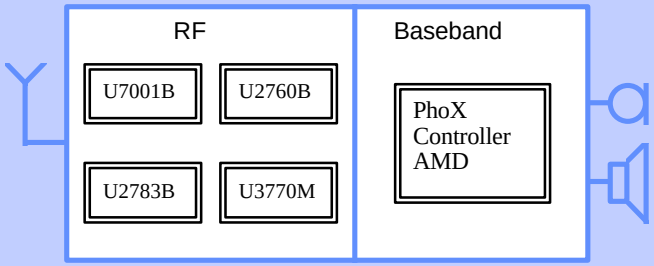
Frequency Allocations

Europe CT-2 (ETSI)	864 - 868 MHz
North America ISM Band (NR, SS)	902 - 928 MHz
North America CT-2+	930 - 931 MHz 940 - 941 MHz
Korea CT-2	910 - 914 MHz
Taiwan CT-2	864 - 868 MHz
China CT-2	839 - 843 MHz

Demo and Testboards

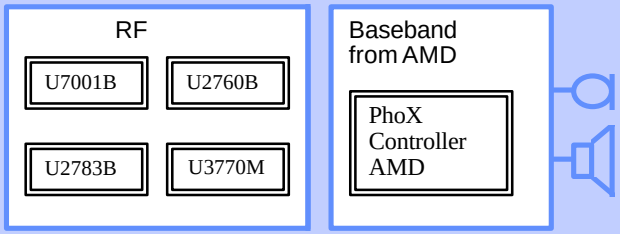
A-Board (CT2)

Complete working CPP demo board



B-Board (CT2)

RF test board with U2760B/2783B/7001BG/3770M



C-Board (CT2)

RF test board with U2760B/2783B

D-Board (NR)

U2762B/2783B