

Overview

IntegrIT APCO P25CAI is a software stack implementing APCO P25 FDMA Common Air Interface. Strictly conformed to TIA-102.BAAA-A specification, IntegrIT APCO P25CAI is an ideal solution for OEM 2-way radio equipment manufacturers. It is scalable to fit in portable and mobile radios as well as base stations and repeaters. Flexible configuration allows conventional and trunking communication. Robust decoding technique provides superior performance in noisy environment.

Features

- APCO P25 interoperable. Can be used for conventional and trunking communication, in analog/digital repeaters and base stations as well as portable and mobile radios.
- Open interface to standard and proprietary voice compression/encryption schemes.
- Normal/selective squelch support
- Robust demodulator with -122dBm sensitivity
- Native integration with IP and PSTN networks and VoIP. See separated products **IntegrIT CFSI Analog (TRC)** and **CFSI Digital** products.
- Extensive self testing and logging capabilities.
- Built-in P25 test patterns

Applications

- Public Safety
- APCO P25 equipment
- UHF 2-way radios

Specifications

APCO P25CAI incorporates robust C4FM modem, voice and data encoding/decoding logic, channel access and repeater. The solution is extremely scalable and customizable under customers needs. It is targeted for using in portable and mobile stations as well as in infrastructure equipment like repeaters and base stations. Common Air Interface supports standard features like normal and selective squelch, busy channel lockout etc.

There are several dedicated interfaces in the APCO P25CAI for encryption/key management technique support. Interface to the voice compression is open for using of standard and non standard vocoders. Channel access logic manages PTT line and supports various scenarios of voice/data transmission based on inbound channel status analysis. To facilitate integration efforts APCO P25CAI incorporates built-in standard P25 testing patterns generator, BER tester and extensive reporting and logging capabilities.

APCO P25CAI can be delivered with **IntegrIT Conventional Fixed Station Analog/Digital Interface** (TIA-102.BAHA) allowing remote analog or digital station control and communication.

Availability

This software is available in binary/source code written on fully portable C-language for:

- Texas Instruments TMS320C55xx, TMS320C64xx, DaVinci, OMAP
- ARM9E
- x86

Porting on other platforms (Analog Devices, Freescale, etc.) is upon request.

Pricing/Licensing

Call

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