

Technical description

The iMedia Center is a network DAC/ADC with remote control capabilities. The remote control subsystem includes a 2.4GHz RF link to a mobile handset which includes a data display. Communications is achieved using a National Semiconductor SC14CVM2.4FL DECT compliant Cordless Voice Module (CVM). CVM modules are in the fixed part (FP) as well as in the mobile part (MP) and communications between the FP and the MP utilize the 16Kbps data channel established by the CVM.

The CVM baseband part is based on the National Semiconductor SC14428 chip. The RF transceiver is National Semiconductor LMX4168. The key features of the technology are: Encryption Preamble; Antenna diversity. The CVM DECT is based on the ETSI DECT specification and is compliant with to ETSI ETS 300 444 (GAP). The CVM supports up to 6 DECT GAP compliant mobile units to one base station, but a maximum of 4 are supported in this application.

