

Description

SL900x is a family of fully **Software defined Universal Base Band Modulator IC** supporting worldwide terrestrial and cable TV standards. The IC can also support non-standard, proprietary custom waveforms for closed-loop secure communication systems.

Applications

- Video distribution Head-end / Hospitality TV, SMATV
- Surveillance, remote monitoring and control
- Tactical radio communication systems; Satellite modulators
- Secured and Proprietary base band waveform modulation
- Internal and external A/V transmitter modules for Tablets
- Emergency warning for disaster management systems

IC Information

- Package: LFBGA 176-pin; 12x12 mm; 0.80mm ball pitch
- Power supply: 3.3V, 2.5V and 1.2V

Interfaces

- INPUT: Digital Parallel Transport Stream (TS)
- OUTPUT: Zero-IF and Low-IF (up to 10MHz)
- I2C for programming and code download
- JTAG and UART for diagnostics and debug

Standards

Single Carrier	QPSK, 16/32/64/128/256 QAM
Multi Carrier(OFDM)	QPSK, 16/32/64/128/256 QAM
TV/Cable Standards	ATSC, DVB-T, ISDB-T Clear QAM, DVB-C, ISDB-C

Features

- Indigenous "Software Defined Radio" (SDR) architecture
- Software configurable Standard and Custom modulation
- Integrated PLL's and DAC's
- Low foot-print, Low power consumption
- Supports QPSK, 16-, 32-, 64-, 128-, 256- QAM Modes
- Forward Error Correction (FEC) support for all standards: Viterbi, Reed-Solomon, LDPC, Trellis and Turbo Encoders
- Modulation Error Rate (MER) \geq 40db
- Integrated interleaving support
- Control processor to reduce host software burden
- Two-wired interface for control and program code download
- Windows based parameter configuration utility
- Windows & Linux drivers
- Field-proven, low power, small foot print device

