ISOmodem® Solutions

www.silabs.com/ISOmodem

Highest Level of Integration

By integrating the DSP, modem controller, RAM and ROM, the ISOmodem significantly reduces the software development time and system resources needed to implement a full-featured modem.

Smallest Footprint

The ISOmodem is the smallest complete modem solution on the market (<30 external components). This eases PCB layout, procurement and compliance while the smaller footprint allows for more functions on a given PCB.
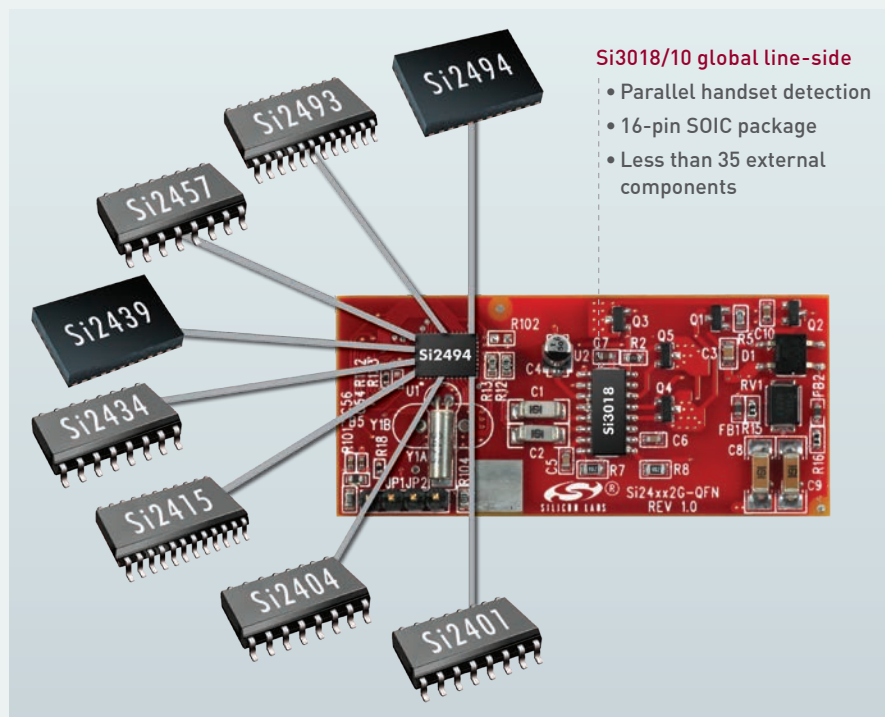
Proven, Robust Solution

Silicon Labs' proven DAA technology gives the ISOmodem excellent surge immunity and reliable worldwide performance and compliance.

M2M Communications

The full suite of M2M communications capabilities includes general-purpose ITU-T data protocols with error correction and compression as well as application specific functions such as Fast Connect and security industry protocols. DTMF detection and programmable tone detectors/ generators support custom protocols as well as voice menus.

Excellent Voice Fidelity

When combined with the Si3000 voice codec, the Si2494/39 supports half- or full-duplex speaker phone, telephone answering machine, handset, and voice menu functions. Advanced digital signal processing optimizes audio fidelity for an elegant end-user experience. CID Type 1 and 2 and SMS round out the telephony feature set.

Si3018/10 global line-side
- Parallel handset detection
- 16-pin SOIC package
- Less than 35 external components

Compact Design with Fewest External Components

ISOmodem Embedded Data Modems

PART NUMBER	MAX DATA RATE (bps)	LINE SIDE DEVICE	HOST INTERFACE	HANDSET, TAM AND SPEAKERPHONE	ERROR CORRECTION/ DATA COMPRESION	PACKAGE
Si2401	2400	Si3010	UART			SOIC16
Si2404	2400	Si3010	SPI, UART or parallel		•	TSSOP24 or SOIC16
Si2415	14400	Si3018	SPI, UART or parallel		•	TSSOP24 or SOIC16
Si2434	33600	Si3018	SPI, UART or parallel		•	TSSOP24 or SOIC16
Si2439	33600	Si3018	SPI, UART or parallel	•	•	QFN38
Si2457	56000	Si3018	SPI, UART or parallel		•	TSSOP24 or SOIC16
Si2493	56000	Si3018	SPI, UART or parallel		•	TSSOP24 or SOIC16
Si2494	56000	Si3018	SPI, UART or parallel	•		QFN38

TAM: Telephone Answering Machine

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