



SILICON LABORATORIES

# Si3960GW/GI

## GLOBAL ANALOG INTERFACE DIRECT ACCESS ARRANGEMENT

### Features

Complete DAA includes the following:

- Proprietary Isolation Technology that Eliminates the Need for Transformers and Opto-Couplers
- Supports all Required DAA Functions Including the Following:
  - PTT and Safety Isolation Barrier
  - Off-Hook Switch
  - Caller ID Reception
  - Ring Detection and Indication
  - 2- to 4-Wire Converter and Hybrid
  - Differential Input and Output
  - Phone Line DC and AC Termination
- Analog Interface Connects Easily to Most Commercially Available Modem/Codec Chipsets
- Programmable AC and DC Terminations for Global Compliance
- High Performance for Wireline Analog Modems up to and Including 56 Kbps
- 3.3 V to 5 V DC Operation
- Low Power Consumption
- Package: SSOP

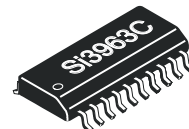
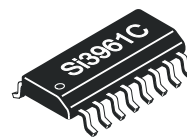
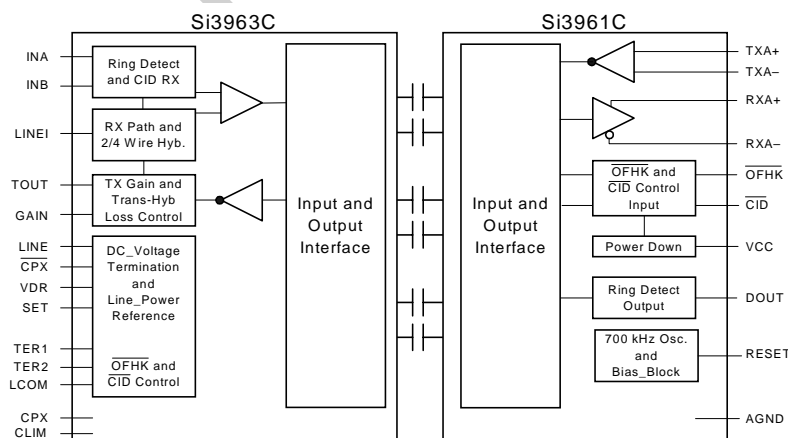
### Applications

- V.90 Modems
- Desk top ISA/PCI Modem Cards
- AC97/AMC97 Modem Riser Cards
- USB External Modems
- PCMCIA Modem Cards
- Laptop/Hand-Held Modem Modules
- Web TV / Set Top Boxes
- Answering Machines
- Fax Machines
- Enhanced Feature Phones
- Computer PBX Line Interfaces
- Alarm System Line Interfaces
- Remote Electronic Meter Readers

### Description

The Si3960GW direct access arrangement (DAA) chipset consists of the Si3961C, Si3963C, and Si3935L. The Si3960GI DAA chipset consists of the Si3961C, Si3963C, and Si3964-6L (a BSI approved component). These silicon chipsets, in conjunction with their recommended external components, provide all the necessary line monitoring, filtering, isolation, and protection functions required for the connection of high-speed analog modem devices up to V.90/56 Kbps to the Public Switched Telephone Network.

### Functional Block Diagram



### Ordering Information

See page 53.

### Pin Assignments

#### Si3961C

TXA+	1	16	D1
TXA-	2	15	D2
V <sub>CC</sub>	3	14	OFHK
RXA+	4	13	D3
RXA-	5	12	D4
AGND	6	11	CID
DOUT	7	10	D5
RESET	8	9	D6

#### Si3963C

CLIM	1	20	TOUT
D1	2	19	GAIN
D2	3	18	LINE
LINEI	4	17	LINEI
V <sub>DR</sub>	5	16	INA
D3	6	15	INB
D4	7	14	TER1
LCOM	8	13	TER2
D5	9	12	SET
D6	10	11	CPX

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