

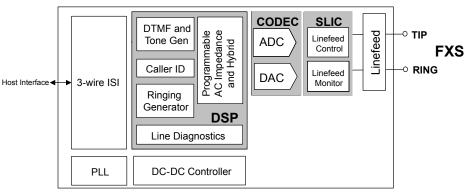
Si3219x Data Short

ProSLIC[®] Single-Channel FXS Solutions

The Si3219x Single FXS ProSLIC[®] devices implement a complete foreign exchange station (FXS) telephony interface solution in a single package that conforms to all relevant global specifications. The Si3219x ProSLIC ICs operate from a 3.3 V supply and have a 3-wire ISI digital interface with 1.8 to 3.3 V I/O. The Si3219x devices are designed to operate with a capacitive boost tracking battery supply for lower power, cost, and footprint than other tracking supplies in the industry. Self-testing and metallic loop testing (MLT) are facilitated by the built-in DSP, monitor ADC, and test load. The devices are available with wideband audio for better-than-PSTN voice quality and DTMF detection. The Si3219x devices are available in a 4 x 6 mm, 38-pin QFN package.

Applications:

- · VoIP Gateways and Routers
- xDSL IADs
- Optical Network Terminals/Units (ONT/U)
- Analog Terminal Adapters (ATA)
- Cable eMTA
- Wireless Fixed Terminals (WFT)
- Wireless Local Loop (WLL)
- WIMAX CPE





KEY FEATURES

- Complete FXS solution in a single 4 x 6
 mm package
- · Performs all BORSCHT functions
- Ideal for short- or medium-loop applications
- Ultra-low power consumption
- Patented low-power ringing
- Adaptive ringing
- · Dynamic overhead control
- · Ringing current limiting
- · Simplified configuration and diagnostics
 - Supported by ProSLIC API
 - Audio diagnostics with loopback
 - Integrated test load
- Global programmability
- · Wideband voice support
- On-hook transmission
- Loop or ground start operation
- Smooth polarity reversal
- A-Law/µ-Law companding, linear PCM
- Flexible integrated tracking dc-dc controller supporting patent-pending lowcost capacitive boost configuration
- Software-programmable parameters:
- Ringing frequency, amplitude, cadence, and waveshape
- · Two-wire ac impedance
- · Transhybrid balance
- DC current loop feed (10-45 mA)
- Loop closure and ring trip thresholds
- · Ground key detect threshold
- · Pulse metering
- DTMF generation
- DTMF detection (Si32193)
- · 3.3 V operation
- Support for 1.8 V I/O
- Maximum battery up to -100 V
- Pb-free/RoHS-compliant packaging
- 3-wire Integrated Serial Interface (ISI)

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1. Ordering Guide

P/N	Description	Package Type ²	Max V _{BAT}	Temperature
Si32192-A-FM1	Wideband FXS, ISI interface, parametric MLT	QFN38	–100 V	0 to 70 °C
Si32192-A-GM1	Wideband FXS, ISI interface, parametric MLT	QFN38	–100 V	-40 to 85 °C
Si32193-A-FM1	Wideband FXS, ISI interface, parametric MLT, DTMF detection	QFN38	–100 V	0 to 70 °C
Si32193-A-GM1	Wideband FXS, ISI interface, parametric MLT, DTMF detection	QFN38	–100 V	–40 to 85 °C
Si32192-A-ZM1	Wideband FXS, ISI interface, parametric MLT, customer-specific	QFN38	–100 V	0 to 70 °C
Si32192-A-ZM2	Wideband FXS, ISI interface, parametric MLT, customer-specific	QFN38	–100 V	0 to 70 °C
Si32193-A-ZM1	Wideband FXS, ISI interface, parametric MLT, DTMF detection, custom- er-specific	QFN38	–100 V	0 to 70 °C
Si32193-A-ZM2	Wideband FXS, ISI interface, parametric MLT, DTMF detection, custom- er-specific	QFN38	–100 V	0 to 70 °C
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1. Adding the suffix	"R" to the part number (e.g. Si3219x-A-FMR)	denotes tape and reel.		

Table 1.1. Si3219x Ordering Guide

Table 1.2. Ordering GuideSi3219x Evaluation Kits

Part Number	Description	V _{BAT} Max ¹
Si32193ACB10SL0EVB	ISI Wideband FXS with DTMF detection and low-cost capacitive boost dc-dc converter EVB	–100 V
Note: 1. EVB V _{BAT} max may be lim	ited by BOM option.	









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