

# **ECE1099**

# GPIO Expansion, 23x8 Keyscan Matrix Interface via SMBus or BC-Link Bus

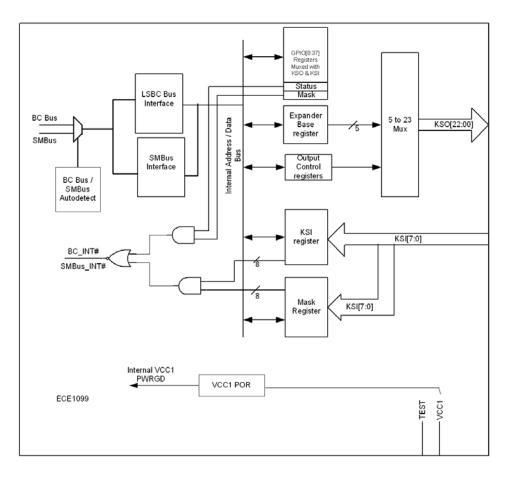
## **General Description**

The ECE1099 is a 40-Pin 3.3V Keyboard Scan Expansion or GPIO Expansion device. The device supports a keyboard scan matrix of 23x8. The device is connected to a Master via the BC-Link<sup>TM</sup> interface or via the SMBus.

KSI and KSO signals are multiplexed with GPIOs.

## **Features**

- Up to 23x8 Keyboard Scan Matrix
- 32 Multiplexed General Purpose I/O pins
  All are MCU addressable I/O Pins
- BC-Link Interconnect Bus
  - Link to embedded controller
- SMBus Interconnect
  - One of two address selection
- 3.3V Operation
  - 40-Pin, QFN RoHS Compliant package
  - 0.5mm Pitch
  - 6x6mm Body size



## **Block Diagram**

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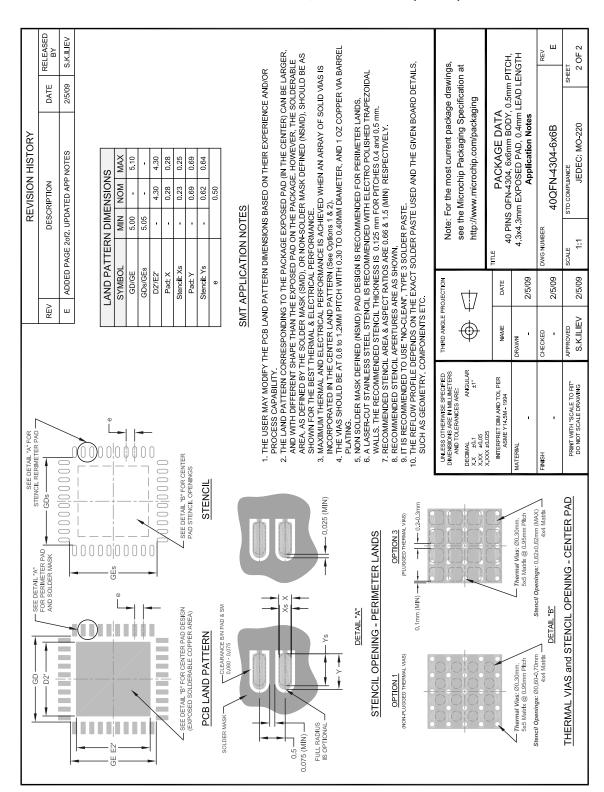
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## PACKAGE OUTLINE

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## FIGURE 2: PACKAGE OUTLINE: 40-PIN QFN, 6X6 MM BODY (2 OF 2)

## APPENDIX A: PRODUCT BRIEF REVISION HISTORY

## TABLE A-1: REVISION HISTORY

Revision	Section/Figure/Entry	Correction
DS00001728A (04-29-14)	REV A replaces previous SMS	C version Rev. 1.6 (02-21-11)

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PART NO. <sup>(1)</sup>   Device	[X]  -  XXX  (2)  -  [X]  (3)                  Temperature  Package  Tape and Reel    Range  Option	Examples: a) ECE1099-FZG = 40-pin QFN, Commercial b) ECE1099X-FZG = 40-pin QFN, Extended
Device:	ECE1099 <sup>(1)</sup>	Note 1: These products meet the halogen maximum concentration values per IEC61249-2-21.
Temperature Range: Package:	Blank = Commercial 0°C to 70°C X = Extended 0°C to 85°C $FZG = 40 \text{ pin QFN}^{(2)}$	Note 2: All package options are RoHS compliant. For RoHS compliance and environmental information, please visit <u>http://www.micro- chip.com/pagehandler/en-us/aboutus/</u> <u>ehs.html</u> .
Tape and Reel Option:	Blank = Tray packaging TR = Tape and Reel <sup>(3)</sup>	Note 3: Tape and Reel identifier only appears in the catalog part number description. This identi- fier is used for ordering purposes and is not printed on the device package. Check with your Microchip Sales Office for package availability with the Tape and Reel option.

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