

Chip-Bridge Technologies

CB SOIC-QFN-28-A

Host: 28-SOIC 7.5 x 18.7mm — Guest: 28-QFN 4 x 4mm



Adapter Interfaces

Table 1: Adapter Parameters

Parameter	Host	Guest	Unit	
Package	SOIC	QFN	-	
Pin Count	28	28	-	
Package Dim.	7.5 x 18.7	4 x 4	mm	
Pitch	1.27	0.45	mm	

Features

- Drop-in adapter; Install 28-QFN 4 x 4mm on a 28-SOIC 7.5 x 18.7mm footprint
- Low profile adapter, 0.8mm
- Supports common manufacturing methods
- 1:1 Pinout Configuration

General Description

This device is a drop-in footprint to footprint adapter for your existing PBC design. Each Chip-Bridge Technologies adapter is designed to fit on the stated Host Footprint, and provide a Guest Footprint with electrical connections for your replacement IC.

Visit chipbridgetech.com/products to find our full product catalog. If you have questions or would like to request a design specific to your application, please contact our support team at support@chipbridgetech.com.

Chip-Bridge Technologies Adapaters are a patent pending design.

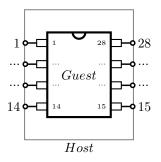
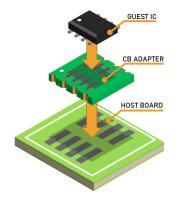


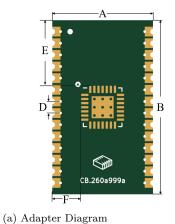
Figure 1: Adapter Pinout

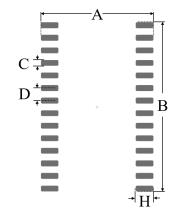
Host Pins	Guest Pins			
1	1			
2	2			
3	3			
4	4			
•••				
25	25			
26	26			
27	27			
28	28			

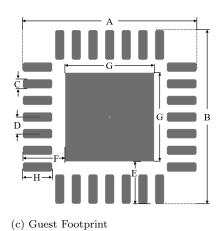
Table 2: Pin Configuration



Mechanical Specifications







(b) Host Footprint

Figure 2: Mechanical Outline

Print version not to scale.

Table 3: Mechanical Specification

	Units	A	В	C	D	E	F	G	Н	I
$Adapter^1$	mm	11.0 ± 0.127	19.0 ± 0.127	-	1.27	3.150	7.145	-	-	-
Host Footprint 1,2	mm	11.40	17.11	0.6	1.27	-	-	-	1.8	-
Guest Footprint 1,3	mm	4.7	4.7	0.25	0.45	1.150	1.150	2.4	0.8	-

 $^{^1}$ Tolerances $\pm 0.1 \mathrm{mm}$ unless otherwise stated.

Trace Specifications

Table 4: Adapter Trace Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Trace Resistance	R_{trace}^{4}	0.1	5.0	25.0	$\mathrm{m}\Omega$	20°C
Trace to Trace Clearance	$d_{clearance}$		150 ± 13		μm	

⁴ Calculated values.

Part Identifier

Printed Identifer: 260a999a

 $^{^2}$ Host IC Ref. Drawing: digikey.com/htmldatasheets/production/755151/0/0/1/ak5394a.pdf

³ Guest IC Ref. Drawing: microchip.com/.../Atmel-9505-AT42-QTouch-BSW-AT42QT1060_Datasheet.pdf

Datasheet Updates

You can find the latest datasheet at chipbridgetech.com/products.

Errata

- 1. v1.0: Initial Release
- 2. v1.1:
 - Add Errata section.
 - Update dead hyperlink to Host and Guest IC Reference Drawing.