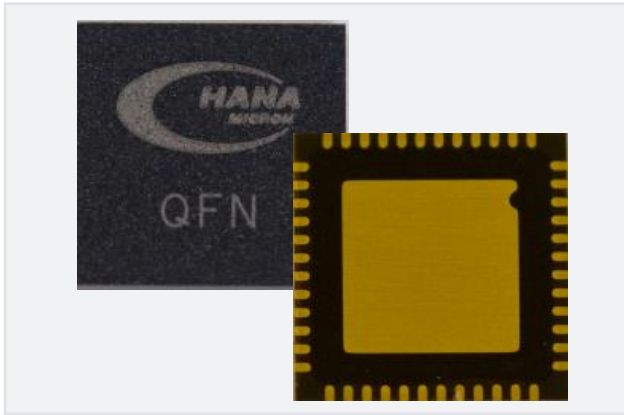
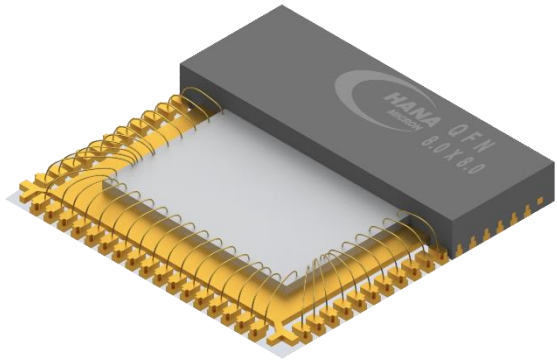


QFN/FCQFN

Quad Flat No Lead Package



Reference Image



Description

HANA Micron's Quad Flat No lead (QFN) is based on a PPF Lead frame PKG to have strong reliability, and it is a near chip scale PKG with plastic overmolded encapsulation.

This package has many benefits including reduced lead inductance, a small size, thin profile, and low weight. The exposed die paddle on the bottom of PKG offers good thermal and electrical performance.

HANA Micron's QFN will be able to meet your requests for strong reliability, reduced thickness, small size, low weight, and thermal and electrical performance, etc.

Features

- Body size 2mm to 10mm
- Lead count 8 to 88 lead
- Die thickness 50 to over 200um
- Mold cap 0.25 to 0.65 mm
- Customized PKG is available
- Thin, lightweight, space saving package
- Pb-Free, RoHS compliant & Green BOM
- Wide range of open tool substrate available
- Good thermal & electrical performance size

Applications

- Analog
- ASIC
- Wireless RF
- MEMS
- Cell Phone
- Notebook
- PMIC
- Power Controller
- Automotive
- Fingerprint sensor

QFN/FCQFN

Quad Flat No Lead Package

Design Guide

Item	2021	2022	2023
Lead frame Thickness	0.15mmT ~ 0.20mmT	-	-
Lead frame type	PPF	-	-
Lead frame size	240 x 74mm	240 x 77.5mm	-
Lead Pitch	Min. 0.4mm	0.35mm	-
Wire Type	Au / Cu	-	-
Wire Diameter	0.6 ~1.0mil	-	-
Wire Length	2.8mm	4.0mm	4.0mm
Mold Thickness	0.25~0.65T	-	-
PKG Size	2x2 ~ 10x10mm	12x12mm	20x20mm
Bump Pitch (FCQFN)	0.45mm	0.40mm	0.30mm
Bump Height (FCQFN)	90um	60um	-

QFN/FCQFN

Quad Flat No Lead Package

Product List

Package Size	Lead count	Package Type	Application	Package Thickness	MD Thickness	LF Type/ Thickness	Lead Pitch
2x2mm	8	Single	Mobile Touch IC	0.55mmT	0.40mmT	PPF 0.15mmT	0.50mm
2.5x2.5mm	18	Single	Mobile Touch IC	0.50mmT	0.35mmT	PPF 0.15mmT	0.40mm
3x3mm	10	Single	LCD Panel Power controller	0.85mmT	0.65mmT	PPF 0.203mmT	0.50mm
4x4mm	16	Single	LCD Panel Power controller	0.75mmT	0.55mmT	PPF 0.203mmT	0.65mm
4x4mm	24	Single	LCD Panel Power controller	0.75mmT	0.55mmT	PPF 0.203mmT	0.50mm
5x5mm	32	Single	LCD Panel Power controller	0.75mmT	0.55mmT	PPF 0.203mmT	0.50mm
5x5mm	40	Single	LCD Panel Power controller	0.75mmT	0.55mmT	PPF 0.203mmT	0.50mm
5x7mm	38	Single	LCD Panel Power controller	0.85mmT	0.65mmT	PPF 0.203mmT	0.50mm
6x6mm	48	Single	Automotive	0.85mmT	0.65mmT	PPF 0.203mmT	0.40mm
7x7mm	48	Single	PMIC	0.85mmT	0.65mmT	PPF 0.20mmT	0.50mm
7x7mm	56	SS2	PMIC	0.85mmT	0.65mmT	PPF 0.20mmT	0.40mm
8x8mm	68	Stack	PMIC	0.85mmT	0.65mmT	PPF 0.20mmT	0.40mm
9x9mm	76	Single	PMIC	0.85mmT	0.65mmT	PPF 0.20mmT	0.40mm
10x10mm	88	Single	PMIC	0.75mmT	0.55mmT	PPF 0.20mmT	0.40mm