

16 BIT HYBRID CONTROLLER, Digital Signal Processors & Controllers (DSP, DSC)
(DSP, DSC) 16 BIT HYBRID CONTROLLER

| | |
|---------------|-----------------------------------|
| Manufacturers | NXP Semiconductor |
| Package/Case | LQFP-48 |
| Product Type | Embedded Processors & Controllers |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for DSP56F801FA80E or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

DSP56F801FA80E is a digital signal processor (DSP) from the DSP56800E core family, designed and manufactured by NXP Semiconductors (formerly Freescale Semiconductor). It is a 16-bit fixed-point DSP with a maximum operating frequency of 80 MHz and an instruction set optimized for signal processing.

Features

16-bit DSC, 56800 core, 16KB Flash, 80MHz, QFP-48

Application

Audio and voice processing, such as noise reduction, echo cancellation, and equalization

Motor control, including AC and DC motor control

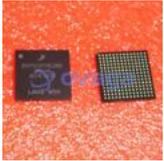
Industrial automation and control systems

Communications systems, such as wireless modems and base stations

Automotive applications, including engine control and safety systems



Related Products



[DSP56321VL240](#)

NXP Semiconductor
196-BGA



[DSP56F827FG80E](#)

NXP Semiconductor
LQFP-128



[DSP56F807PY80E](#)

NXP Semiconductor
LQFP-160



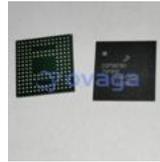
[DSP56F801FA60E](#)

NXP Semiconductor
LQFP-48



[DSP56311VL150](#)

NXP Semiconductor
BGA-196



[DSP56F807VF80E](#)

NXP Semiconductor
MAPBGA-160



[DSP56F805FV80E](#)

NXP Semiconductor
LQFP-144



[DSP56301AG80](#)

NXP Semiconductor
TQFP-208