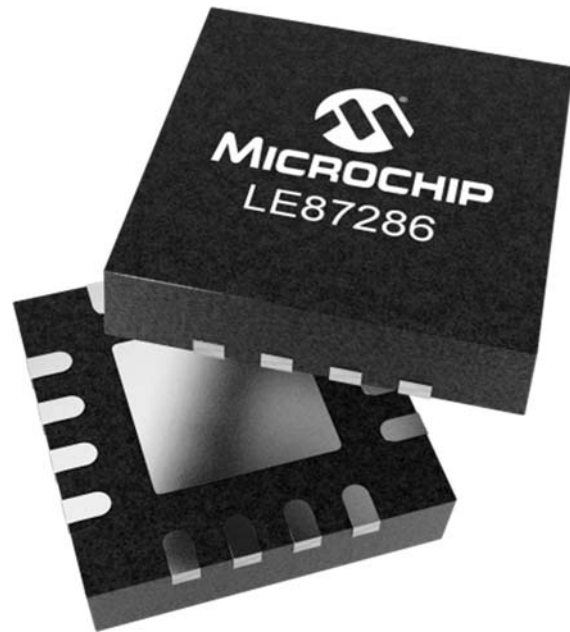




# LE87286

## G.Fast Single Channel Line Driver



## Device Overview

### Summary

The Le87286 is a single channel line driver designed for home gateway applications. It supports transmission of G.Fast signals with very low power dissipation. The Le87286 contains a pair of wideband amplifiers designed with Microchip's HV15S Bipolar SOI process for low power consumption. The line driver gain is fixed internally with two programmable gain levels. The amplifiers are powered from a single power supply. When a gain level is selected, the device can be programmed to one of three Transmit (TX) states, Receive (RX) states or the Disable state.

### Additional Features

- **Supports high frequency (up to 212 MHz) G.Fast transmission**
- **Very low power dissipation**
  - Class AB operation
- **2 programmable gain levels**
- **3 programmable transmit (TX) states and associated Receive (RX) states**
- **No external gain resistors required**
- **Small footprint package**
  - 16-pin (4 mm x 4 mm) QFN
- **RoHS compliant**

## Parametrics

Name	Value
Application	G.Fast 212MHz
Series	G.fast
Loop Length	Short
Signal Power (dBm)	8
Number of Ports	1

## RoHS Information

Part Number	Device Weight (g)	Shipping Weight (Kg)	Lead Count	Package Type	Package Width	Solder Composition	JEDEC Indicator	RoHS	China EFUP
LE87286NQC	0.046600	0.734694	16	VQFN	4x4x1mm	Matte Tin	e3		
LE87286NCT	0.046600	0.234000	16	VQFN	4x4x1mm	Matte Tin	e3		