


Modem Module Data 3.3V 48-Pin TQFP T/R

Manufacturer:	Microchip Technology, Inc
Package/Case:	TQFP
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The PL360 is a programmable modem for narrow-band Power Line Communication (PLC), able to run any PLC protocol in the frequency band below 500 kHz.

This device has been designed to comply with FCC, ARIB, KN60 and CENELEC EN50065 regulations matching requirements of Internet of Things and Smart Energy applications. It implements state-of-the-art narrow-band PLC standards such as ITU G.9903 (G3-PLC®), ITU G.9904 (PRIME) and is able to support any other narrowband PLC protocol. PL360 is a future-proof platform able to support the evolution of these standards.

The PL360 has been conceived to be driven by external Microchip host devices, thus providing an additional level of flexibility on the host side. The Microchip host device loads the proper PLC-protocol firmware before modem operation and controls the PL360 modem.

Watch the video [Multi-Protocol Modem for Power Line Communication](#)

Key Features

Programmable Narrow-Band Power Line Communication (PLC) Modem

Integrated PLC Front end

PGA with automatic gain control and ADC

DAC and transmission driver support direct line driving or external Class-D amplifier driving

Digital transmission level control

Supports two independent transmission branches for the PLC signal

Up to 500 kHz PLC signal bandwidth

Cryptographic engine and secure boot

AES 128, 192, 256 supported

Secure boot: supports AES-128 CMAC for authentication and AES-128 CBC for decryption

Fuse programming control for decryption and authentication

Optimized PLC modem architecture

Available in TQFP-48 and QFN-48 packages

Recommended For You

HDMP-2630B

Microchip Technology, Inc

QFP

HDMP-0422

Microchip Technology, Inc

SSOP-24

HDMP-0451

Microchip Technology, Inc

QFP

MPL360B-I/Y8X

Microchip Technology, Inc

QFP48

MPL360B-I/SCB

Microchip Technology, Inc

VQFN

MPL360BT-I/SCB

Microchip Technology, Inc

VQFN-48

KSZ8851-16MQL

Microchip Technology, Inc

PQFP-128

KSZ8851-16MLL

Microchip Technology, Inc

LQFP48

KSZ8893MQL

Microchip Technology, Inc

QFP128

LAN91C111-NE

Microchip Technology, Inc

QFP

KSZ8851SNL

Microchip Technology, Inc

VQFN32

KSZ8893MQLI

Microchip Technology, Inc

QFP128

KSZ8863RLLI

Microchip Technology, Inc

LQFP-48

KSZ8895FQXI

Microchip Technology, Inc

PQFP128

KSZ8895RQXI

Microchip Technology, Inc

PQFP128