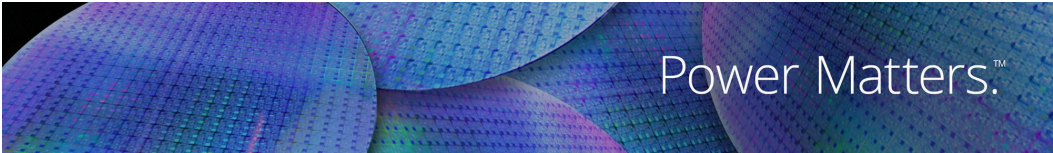


POWER MANAGEMENT

- Drivers, High-Side
- FET Drivers, Low-Side
- Linear Regulators
- LED Drivers
- Motor and Fan Controllers
- Resonant Mode (LLC) Controllers
- Solar Bypass Devices
- Supervisory Circuits and Voltage References
- Switching Regulators
- Reverse Power Feed (RPF)
  - RPF Powered Device (PD) for Distribution Point Units (DPUs)
  - RPF Power Sourcing Equipment (PSE) for Customer Premises Equipments (CPEs)
    - PD81001
    - PD81101
    - PD81000
- Legacy Power Management
- Smart E-Fuse Devices
- Space-grade Power Management



Home / Power Management / Reverse Power Feed (RPF) / RPF Power Sourcing Equipment (PSE) for Customer Premises Equipments (CPEs) / PD81101 / PD81101ILQ-TR

PD81101ILQ-TR

Product Status  
In Production

Overview	Applications	Resources	Diagrams	Ordering
	Support			

ETSI TS 101 548-compliant, Single port, Power Sourcing Equipment (PSE) Driver

Microsemi's PD81101 is a single port, mixed-signal, high-voltage Power Sourcing Equipment (PSE) driver. The device is utilized in FTTP Home Gateways, Modems and Routers and enables Reverse Power Feeding to the Distribution Point Unit (DPU) on the same data line connecting between DPU and Customer Premise Equipment (CPE). It enables detection of compliant Powered Devices (PDs), thus, ensuring safe power feeding and disconnection of ports with minimum of external components. With the external PD81000 MCU, the PD81101 allows the development of fully ETSI TS 101 548 Residential Gateways.

Features

- Internal FET
- Internal Sense Resistor
- I<sup>2</sup>C or UART host interface
- ETSI TS 101 548 -compliant
- Support for RPF classes: 10W, 15W, 21W



ROHS

Package      Tape & Reel  
Carrier:

Electrical Rating	Symbol	Min	Typ	Max	Unit
Number of Channels	# of Ch.			1	channels
Environmental Rating	Symbol	Min	Typ	Max	Unit
Operating Temperature	T <sub>A</sub>			70	°C
Alphanumeric Parameter		Value			
Standard		ETSI TS 101 548			

This part can be found in the following product categories:

- Power Management ▶ Reverse Power Feed (RPF) ▶ RPF Power Sourcing Equipment (PSE) for Customer Premises Equipments (CPEs)
- Power Management ▶ Reverse Power Feed (RPF) ▶ RPF Power Sourcing Equipment (PSE) for Customer Premises Equipments (CPEs) ▶ PD81101
- Power Management ▶ Reverse Power Feed (RPF)