

## MM1007

2023/07/20

## Outline

This IC is a basic model transceiver IC that can build a bus line with a pair of wires (twisted pair wire, etc.). The AMI signal is adopted as the waveform processed by the transmitting unit and the receiving unit. It has strong noise immunity and enables mutual communication even when telephone equipment, security equipment, audio or video equipment, air conditioning equipment, and various other equipment are connected by a long bus line.

## Specifications

Number of data lines	Signal waveform	Data signaling rate typical [kbps]	Data signaling rate upper limit [kbps]	Transmission distance upper limit [m]	Number of nodes upper limit
2	AMI	9.6	100	1200	256

Product name	Operating Ambient Temperature lower limit [deg.C]	Operating Ambient Temperature upper limit [deg.C]	VCC operating voltage lower limit [V]	VCC operating voltage upper limit [V]	Recommended bias voltage lower limit [V]	Recommended bias voltage upper limit [V]
MM1007XFF	-20	75	4.5	5.5	8	40

Product name	Supply Current Typ. [mA]	Transmitting output voltage lower limit [Vpp]	Transmitting output voltage upper limit [Vpp]	Transmitting waveform symmetry lower limit	Transmitting waveform symmetry upper limit	Receiving sensitivity lower limit [Vpp]	Receiving sensitivity upper limit [Vpp]
MM1007XFF	7	3.8	4.6	0.75	1.25	0.65	0.85

Product name	Noise resistivity lower limit [Vpp]	Input impedance [kΩ]
MM1007XFF	0.55	36

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## Package

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SOP-16A