

## Product Overview

### CM2020-00TR: HDMI Transmitter Port Protection and Interface Device

For complete documentation, see the [data sheet](#)

#### Product Description

The CM2020-00TR HDMI Transmitter Port Protection and Interface device is specifically designed for next generation HDMI source interface protection. An integrated package provides all ESD, level shift, overcurrent output protection and backdrive protection for an HDMI port in a single 38-Pin TSSOP package. The CM2020-00TR part is specifically designed to complement the CM2021 protection part in HDMI receivers (Displays, DTV, CE devices, etc.) The CM2020-00TR also incorporates a silicon overcurrent protection device for +5V supply voltage output to the connector.

#### Features

- 0.05pF matching capacitance between the TMDS intra-pair
- Level shifting/isolation circuitry
- HDMI 1.3 compliant
- Provides ESD protection to IEC61000-4-2 Level 4 at  $\pm 8\text{kV}$  contact discharge and  $\pm 15\text{kV}$  air discharge

#### End Products

#### Part Electrical Specifications

Product	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	$V_{(BR)}$ Min (V)	$V_{RWM}$ Max (V)	$I_R$ Max (uA)	$P_{PK}$ Max (W)	Package Type
CM2020-00TR	Pb-free Halide free	Active	HDMI 1.2	19	Unidirectional	1.2	6	5.5	1		TSSOP-38

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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