

# M08026G-11 Datasheet



DiGi Electronics Part Number	M08026G-11-DG
Manufacturer	<a href="#">MACOM Technology Solutions</a>
Manufacturer Product Number	M08026G-11
Description	IC VIDEO DGTL EQUALIZER 16QFN
Detailed Description	Video Equalizer IC 16-QFN (4x4) Package

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## Purchase and inquiry

Manufacturer Product Number:

M08026G-11

Series:

-

Function:

Equalizer

Standards:

-

Voltage - Supply:

2.5V, 3.3V

Manufacturer:

MACOM Technology Solutions

Product Status:

Obsolete

Applications:

Professional Video

Control Interface:

-

Supplier Device Package:

16-QFN (4x4)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

2 (1 Year)

HTSUS:

8542.39.0001

ECCN:

5A991B1



## M08026

### HD/SD Serial Digital Video Cable Equalizer

The M08026 is a high-speed, low-power, adaptive co-axial cable equalizer designed to increase the maximum low-jitter transmission distance of serial digital video signals across commonly used bandwidth-limiting 75Ω coaxial cable.

The M08026 is designed for data rates at 1.485 Gb/s and 270 Mb/s to support serial digital video transmission for standard definition (525i and 625i) and high definition (720p, 1080i, and 1080p) component video. The device also supports 8-bit or 10-bit component digital video (RGB or YCbCr 4:4:4 sampled and YCbCr 4:2:2 or 4:2:0 sampled).

This device automatically optimizes the transfer function based on the bit rate and cable length to minimize the inter-symbol interference (ISI) jitter caused by the cable and to remove the DC offset components introduced with the pathological video pattern and AC coupling in systems.

The low-noise, high-gain equalizer allows for low jitter HD transmissions up to a length of 200m (Belden 1694A) and 120m (Belden 8281). For SD data rate, cable lengths up to 400m (Belden 1694A) and 300m (Belden 8281) are supported.

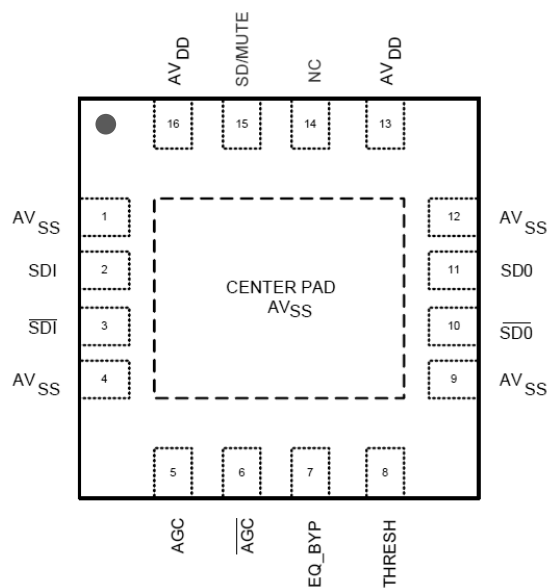


Figure 1 – M08026 Pin-out diagram



### M08026

Serial Digital Video  
Cable Equalizer for  
1.485 Gb/s,  
and 270 Mb/s  
data rates

### > Applications

- Digital Video Recorders (DVR)
- Video Mixers and Switchers
- Surveillance / CCTV Cameras
- Industrial and Professional Cameras
- Digital Image Capture Devices
- Digital Video Displays
- Distribution Amplifiers
- Repeaters

Features	Benefits
Adaptive cable equalization	Design flexibility and control
Optimized data rates at 270 Mb/s to 1.485 Gb/s	Single Chip Solution for multiple data rates
Allows typical equalized length of up to 200m (Belden 1694A) and 120m (Belden 8281) for transmission at 1.485 Gb/s	Extend industry standard cable lengths
Allows typical equalized length of up to 400m (Belden 1694A) and 300m (Belden 8281) for transmission at 270 Mb/s	Extend industry standard cable lengths
Mute and manual bypass mode	Supports non standard rates
Differential CML outputs (50 $\Omega$ on-chip terminations)	Low cost integration
Single 3.3V power supply	Standard voltage supply supported
Small form factor and foot print (4x4 mm <sup>2</sup> , 16-pin QFN package)	Industry standard package
Low power dissipation	Low power and thermal management costs
Extended operating temperature range: -10°C to +85 °C	Provides additional margin for various applications

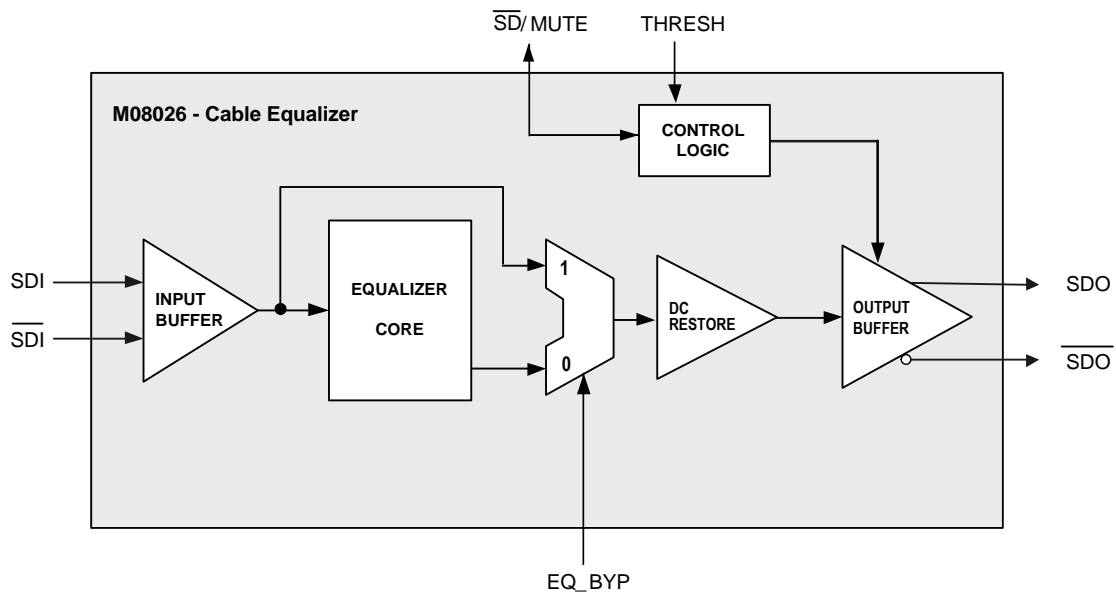


Figure 2 – M08026 Functional Block Diagram

## Package (RoHS Compliant)

- 4x4 mm<sup>2</sup>, 16-pin QFN



For more product information, please visit [www.mindspeed.com](http://www.mindspeed.com)

## MINDSPEED

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