



ActiveConnect™ Solutions

GV8502A Multimedia Receiver for DisplayPort

FEATURES

- DisplayPort 1.1 compliant
- High-rate multimedia performance up to 100 feet with adjustable gain settings
- Fully digital solution supporting up to 5.4Gb/s
- Better than 0.2UI output jitter for all resolutions up to 2.7Gb/s at maximum specified cable length
- Full support for AUX and HPD
- Can be powered by DisplayPort PWR pin

APPLICATIONS

- Professional A/V applications
- Home theater system installs

REFERENCE DESIGN KIT

A complete reference design will be available for manufacturers in Q109 that will include a demonstration receive unit and design collateral. The kit can be leveraged to design long reach DisplayPort 1.1 cables, extenders and dongles capable of supporting the full suite of DisplayPort 1.1 features and functions.

GENERAL DESCRIPTION

The ActiveConnect GV8502A is a receiver that enables the thinnest and longest reach DisplayPort 1.1 cables.

The following performance can be realized:

Data Rate	Cable Length	Cable Gauge
1.62Gb/s (Low Bit Rate)	100 feet	28AWG
2.7Gb/s (High Bit Rate)	100 feet	26AWG
5.4Gb/s (DP 1.2)	50 feet	24AWG

The GV8502A Multimedia Receiver is DisplayPort 1.1 compliant.

It can also drastically reduce cable thickness for BOM savings and increased flexibility. The following shows cable thickness at 2.7Gb/s (High Bit Rate):

Cable Length	Without GV8502A	With GV8502A
15 feet	30AWG	36AWG
25 feet	N/A	32AWG
50 feet	N/A	30AWG
65 feet	N/A	30AWG
100 feet	N/A	26AWG