# High Performance G.fast Connectivity



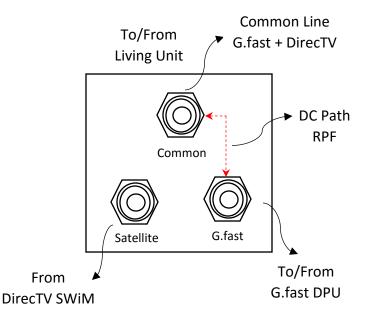




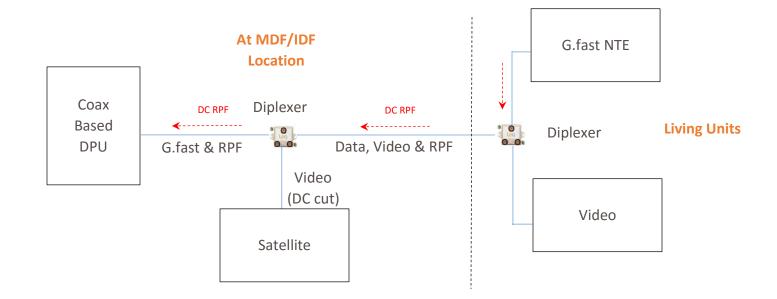
- Combines G.fast over coax and DBS services to each living unit.
- Complies and exceeds specs for ETSI TS 101 548 v2.1.1 for RPF scenarios.
- High isolation In/Out preventing midband MoCA coming out of living units.
- Supports G.fast handshake carrier set tones.
- Designed to provide the lowest insertion loss while maintaining the highest isolation between ports to keep at minimum the disturbance of the transported signals.

# **Applications and Key Features**

- High performance diplexer used in MDU hybrid deployment of G.fast over coaxial.
- Designed to combine G.fast 212 MHz and Satellite DBS services.
- Blocks midband MoCA at Satellite port.
- DC pass through to support future RPF services.
- One diplexer per G.fast DPU port to combine G.fast and Satellite signals.
- One diplexer per living unit to separate G.fast and Satellite signals.



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### Pictures and Use Cases

#### Frequency range

#### Input

- From satellite service:
  - 2.1 2.5 MHz
  - 950 2150 MHz
- From G.fast service:
  - Handshake support (ITU-T G994.1)
  - DC 430 KHz
  - 5 212 MHz

#### Output (common line)

- DC 430 KHz
- 2.1 2.5 MHz
- 5 806 MHz
- 950 2150 MHz

#### Port to port isolation

• TV to G.fast isolation > 45dB

#### **Return loss**

• > 10 dB

#### **Physical Interface**

- Outdoor compliant SCTE Female F ports.
- F Port coloring non-DC power pass ports
- Red colored DC power pass ports
- Two grounding lugs.

#### Casing

• Metal, outdoor rated.

#### DC path

- Up to 60Vdc
- Up to 600 mA

#### Port protection

- Case isolation 50-60Hz, Min 500Vrms
- Lightning to case 10/700 μs, Max 1.5kV
- Transverse power 50-60Hz, Max 250Vrms

#### **Certification**

- UL 467
- EN60950
- RoHS

#### Environment

- Temperature as per MILSTD-883, JESD22-A104
- Humidity as per MIL-STD-810F

#### **Physical**

- Dimensions: 2 x 2 x 1.5"
- Weight: 4.2oz. (120g)

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