



# OUTDOOR GAP FILLER



## Introduction

The Anywave **FLINT** series of Convection Cooled Gap Fillers supports all current international digital and mobile TV standards including ATSC, ATSC3.0, DVB-T/T2, ISDB-T and DTMB. It employs the latest LDMOS power amplifier Technology, supporting UHF as well as VHF Band III and I. This new Gap Filler implements a revolutionary dual-stage patented echo-cancellation technology to realize unparalleled performance, cancelling echoes up to 50 dB larger than the main signal. The **FLINT** series EC system continuously, automatically, and adaptively eliminates dynamically varying echoes from the received signal, providing easy installation, reducing engineering costs, and delivering stable operation with excellent performance. The **FLINT** Gap Filler is available in an indoor format or a weatherproof outdoor version (IEC IP55 compliant) with output power levels up to 100W (ATSC 1.0, post-BPF).

## Key Features

- ✓ Multi-standard capability: DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB
- ✓ Patented dual-stage Echo Cancellation technology, continuously, automatically, and adaptively optimizes echo cancellation and MER performance
- ✓ Implements latest LDMOS Power Amplifier Technology
- ✓ Wide dynamic range with Low Insertion Delay (enables SFN operation)
- ✓ Same LO used for up/down conversion – achieves near perfect RF performance
- ✓ Adjacent channel suppression

# Details

## RF Input

Frequency: UHF, VHF Band III and I

Level: -70 dBm ~ -20 dBm

RF Bandwidth: 6 or 8 MHz

## RF Output

Frequency: UHF, VHF Band III and I

Output Power: up to 100 W

Insertion Delay: 5 usec (enables SFN operation)

## Echo Cancellation

Max Echo Cancellation:  $\leq 50$  dB (compared to main signal)

Echo Cancellation Window:  $\leq 10$   $\mu$ s (customizable)

## MER Degradation

Up to 25dB echo, no significant MER loss (higher than 34dB or within 1.5dB loss of the input signal MER)

Up to 30dB echo, higher than 32dB or within 3dB loss of the input signal MER

Up to 45dB echo, higher than 20dB MER

Power Supply: 90 ~ 260 VAC, 47Hz ~ 63 Hz

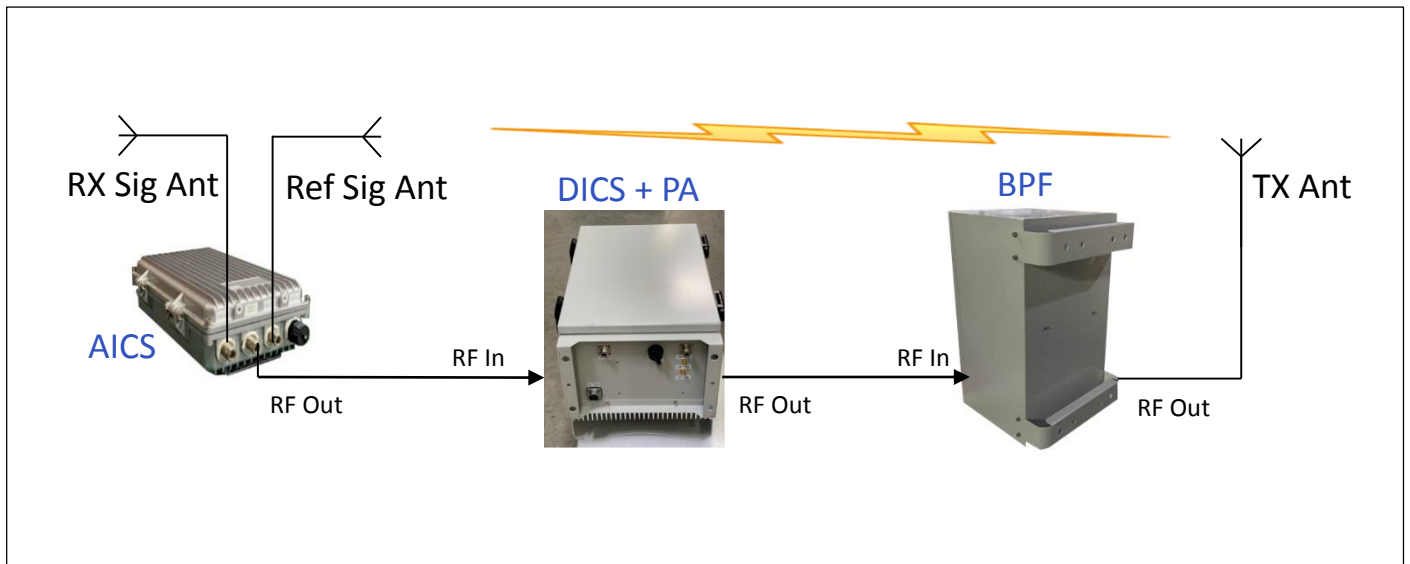
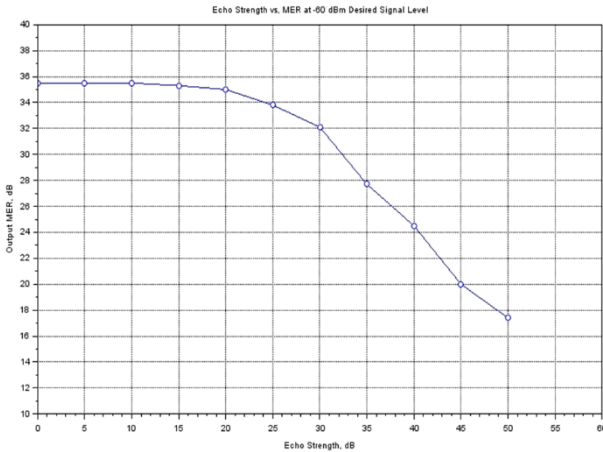
Operating Temperature: -15 °C ~ 55°C

Operating Humidity:  $\leq 95\%$

Operating Altitude:  $\leq 2440$  meters (8000 feet)

Outdoor: PA and DICS: 15 x 14 x 10 inches

AICS: 11.5 x 8 x 4 inches



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