

# HARGON 3710

Trunk / distribution amplifier, 2 active outputs, 1.2 GHz / 200 MHz

## RF PARAMETERS

### Forward Channel

Bandwidth	85...258 - 1218 MHz
Gain @1.2 GHz TRUNK / DISTRIBUTION	2 x 35 / 44 ±0.5 dB
Noise figure <sup>1</sup>	< 7.5 dB
Flatness TRUNK / DISTRIBUTION	±0.75 dB
Output level: <sup>2</sup>	
CTB ≤ -60 dBc	2 x 118 dBμV
CSO ≤ -60 dBc	2 x 120 dBμV
Umax <sup>3</sup>	2 x 112 dBμV
Input testpoint (directional)	- 20 ±1.0 dB
Output testpoints (directional)	- 20 ±0.75 dB

### Reverse Channel

Bandwidth	5 - 65...204 MHz
Gain @204 MHz	2 x 28 ±0.75 dB
Noise figure <sup>4</sup>	< 8.5 dB
Flatness	±0.5 dB
NPR / Dynamic range <sup>5</sup>	48 dB / 23 dB

## OTHERS

Voltage range: remote powering	30 - 65 V AC
Max. current for RF / AC IN ports	10 / 16 A
HUM modulation <sup>6</sup>	≤ -62 for 7 A
Return loss <sup>7</sup>	> 18 dB
Power consumption <sup>8</sup>	37 W
Operation temperature range	-40 - 60 °C
RF Connectors	3 x 5/8"
Protection class	IP 67
ESD protection	4 kV
Surge protection	6 kV
Dimensions (W x L x H)	255 x 234 x 128 mm
Weight	4.0 kg

## AVAILABLE VERSIONS

HARGON 3710 079Y	remote powering
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### 1.2 GHz technology

An extended bandwidth in downstream up to 1.2 GHz; DOCSIS 3.1 standard compliant



### 200 MHz technology

A possibility of extending bandwidth in upstream up to 200 MHz



### GaN Technology

The Output parameters for analog and digital carriers improved for lower power consumption



### Electronic control

A quick and uninterrupted device configuration



### VMC (VECTOR Mobile Commander)

Convenient and user-friendly configuration through mobile devices

## OPTIONAL:



### Spectrum Analyzer

Offers visibility over the whole frequency bandwidth



### Auto Alignment

Self configuration based on optimal amplifier settings



### NMS transponder

Reduced operating costs thanks to the remote monitoring and configuration



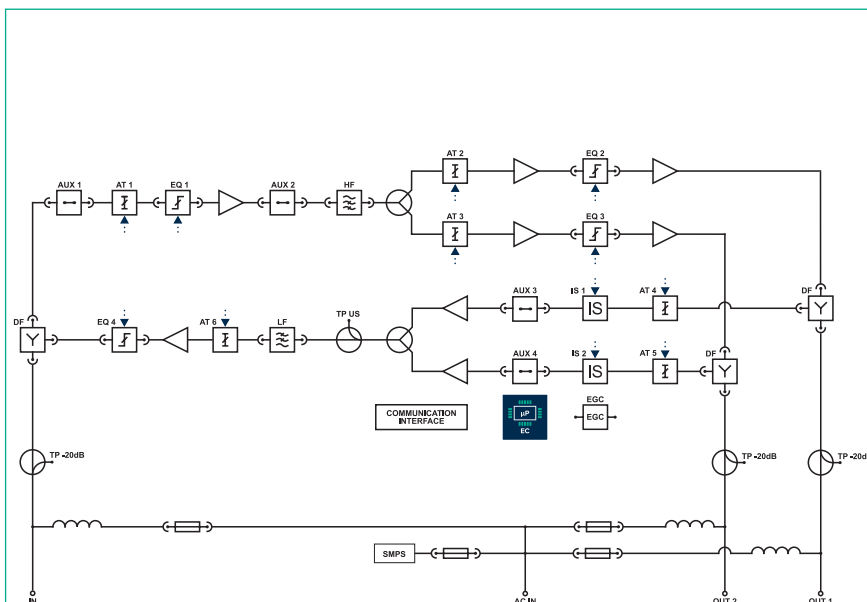
### VIG (VECTOR Ingress Guard)

System compliant; Verification and elimination of the source of ingress in the network



### ALSC (Automatic Level and Slope Control)

Flat and stable Output characteristics due to the compensation of temperature changes in the cables.



### Downstream Configuration:

Input/Interstage gain control (AT1, AT2, AT3): 0 - 20, step 0.5 dB  
Input/Interstage slope control (EQ1, EQ2, EQ3, EQ4): 0 - 18, step 0.5 dB

### Upstream Configuration:

Output/Interstage gain control (AT4, AT5, AT6): 0 - 20, step 0.5 dB  
Output slope control (EQ5, EQ6): 0 - 18, step 0.5 dB  
Ingress switches (IS1, IS2): 0, -6, -40 dB

- 7.5 dB - 750 MHz; 8.0 dB - from 750 MHz to 950 MHz; 9.0 dB - from 950 MHz to 1218 MHz
- According to EN50083-3, 9 dB interstage slope between 85 - 862 MHz, 42 channels CENELEC
- 110 ch 256 QAM, pre-FEC BER 10<sup>-9</sup>, 9 dB slope between 258 and 1218 MHz
- @204 MHz + 1 dB
- NPR @ -9 dBμV / Hz, measured 5 - 204 MHz with 180 MHz loading, 5 dB interstage attenuator
- For f > 15 MHz < f < 1 GHz
- 18 dB for f ≤ 40 MHz, 18 dB -1.5 dB / oct for f > 40 MHz, but not worse than 12 dB
- For 65 V AC

Unless otherwise specified, the whole specifications are tested with 65 / 85 duplex filters installed; at room temperature 25°C and present typical values.