

ZénithHD aerial passive or active on 21/60 channel New **DESIGN** + New **CONSTRUCT**

P/N 256003 / 256006 / 256009 / 256013 / 256016 / 256019

The ZénithHD aerial are optimized for terrestrial digital video broadcast signal over the new channels 21-60 bandwidth. **They help protecting against LTE signals.**

Focus is on built quality, with a fully streamlined undeformable dipole. **The director elements are doubled resulting in a better phase management**, improving the gain and the impedance.

Reflectors have a parabolic shape, using aluminium stamping technology, providing an efficient radio protection, increasing front-to-back ratio. **They are foldable allowing fast mount and unmount without tools.**

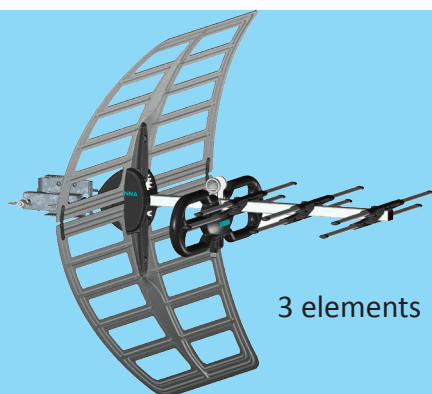
The product range include also low-noise, low-consumption pre-amplified antennas to linearize the gain over the bandwidth. **The integrated amplifier auto switch to pass-through when unpowered.**



PICTURES

DVB-T FULL HD

Registered pattern
Patent pending



6 elements

9 elements



PERFORMANCES



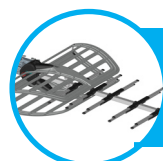
Doubled elements for phase management

Aluminium reflector cutted and stamped



Snapping Stripline printed dipole

Boom assembling with snap



Completely factory-assembled antenna, no tools required when installing



SPECIFICATIONS

PART NUMBER	256003	256006	256009	256013	256016	256019	
Nb of directors elements	3	6	9	3	6	9	
Type	Passive	Passive	Passive	Active	Active	Active	
ELECTRICAL SPECIFICATIONS							
Channels	21 / 60	21 / 60	21 / 60	21 / 60	21 / 60	21 / 60	
Bandwith	470 / 790	470 / 790	470 / 790	470 / 790	470 / 790	470 / 790	MHz
Gain	11,1 - 13,2	11,2 - 13,9	11,3 - 14,8	30,5 - 31	31,5 - 32	32,5 - 33	dBi
Front to back ratio AV / AR	32 à 37	32 à 37	32 à 37	32 à 37	32 à 37	32 à 37	dB
Aperture size at - 3 dB	2 x 21	2 x 18	2 x 16	2 x 21	2 x 18	2 x 16	°
MECHANICAL SPECIFICATIONS							
Length	0,52	0,85	1,25	0,52	0,85	1,25	m
Weight	1,5	1,8	2	1,5	1,8	2	kg
Mast clamp	35 / 60	35 / 60	35 / 60	35 / 60	35 / 60	35 / 60	mm
Effective wind load (130 km/h) H-plane	2,4	3,6	5,4	2,4	3,6	5,4	daN
Effective wind load (130 km/h) V-plane	11,1	15,6	22,4	11,1	15,6	22,4	daN

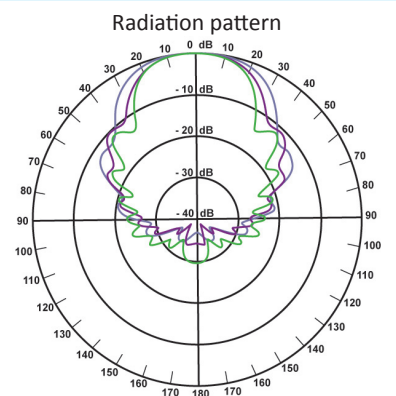
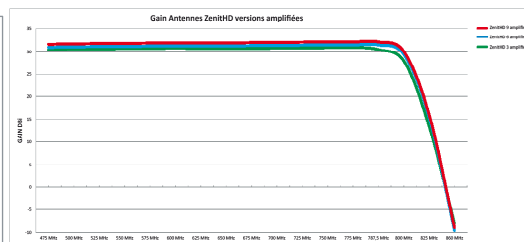
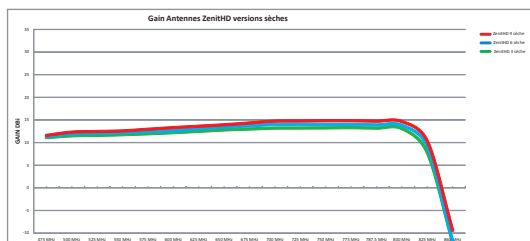


GAIN CURVES

ZénithHD antennas gain

Amplified ZénithHD antennas gain

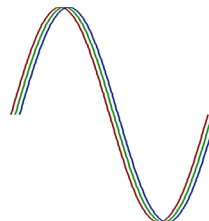
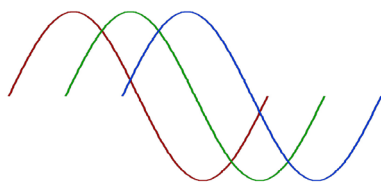
Radiation pattern



PHASE SHIFT MANAGEMENT

Standard aerial output signal
Uncorrected phase difference

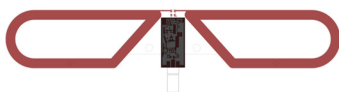
ZénithHD output signal
Corrected phase difference, improved gain



Improved BER and MER, SWR < 1.5



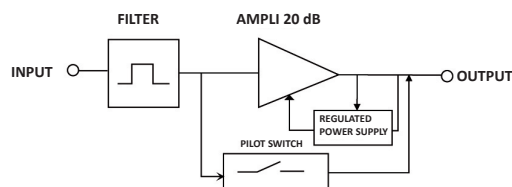
STRIPLINE TECHNOLOGY



STRIPLINE allows the radiation pattern to operate on the whole dipole circuit.



AUTO-SWITCHABLE AMPLIFIER



Amplifier synoptic

Noise factor < 1 dB



99 % RECYCABLE PRODUCT

All used materials are recyclable : aluminium, steel, plastics and cardboard. Compliant with CE, RoHS and DEEE.



NON INCLUDED ACCESSORIES

Passive version : non filtered active dipole, P/N 401560 - Gain 29dB.

Active version : the amplifier is multi-voltage 12 or 24 V, but it is advised to add the PSU P/N 301087 - 1 output 230V / 12V / 50mA.