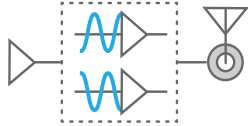




The **MTK952** is a versatile 1RU dual-channel transmitter designed for IEM, IFB applications for live music, broadcast, and more.

Wideband RF Technology featuring a double conversion stage combined with SAW filters intermediate frequencies provides the widest switching bandwidth available at 330MHz, 2400 user-defined frequencies (40 group by 60 freq.). The entire UHF band in one device.



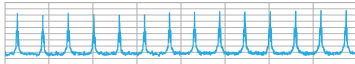
Multi-Companding SHARC™ DSP delivers proprietary audio algorithms for any application with less than 1ms delay allowing you to create and shape presets for the desired sound.

- Mono/Stereo
- Compander Type
- HPF
- LPF

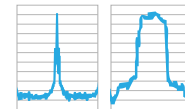


- Pre-Emphasis Deviation
- Tone Squelch Freq
- Tone Squelch Deviation

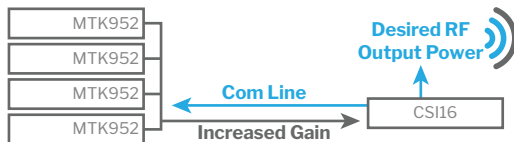
IMD Phase Cancellation advanced linear DSP that allows for evenly spaced frequencies with no intermod issues for more channels and optimum RF spectrum utilization.



Direct Digital Synthesis (DDS), optimizes frequency agility, lowest possible phase noise, and precise control across the widest RF band, with over 70 db of stereo isolation. Generates virtually any type of RF modulation.



Output Power from 10mW to 2 Watts. Works in conjunction with the Wisycom RF distribution products to automatically compensate for combiner loss to deliver power you need.



Master / Slave (MS option) Send a 0 dBm reference signal from Master to Slave via copper, or fiber via MFL. Allows multiple RF Coverage zones in an integrated platform.



Additional Features:

- Analogue & digital input (AES3),
- Redundant power supply 230/110 Vac & 12 VDC (DC is optional)
- SWR (Stationary Wave Ratio) sensing on antenna outputs.

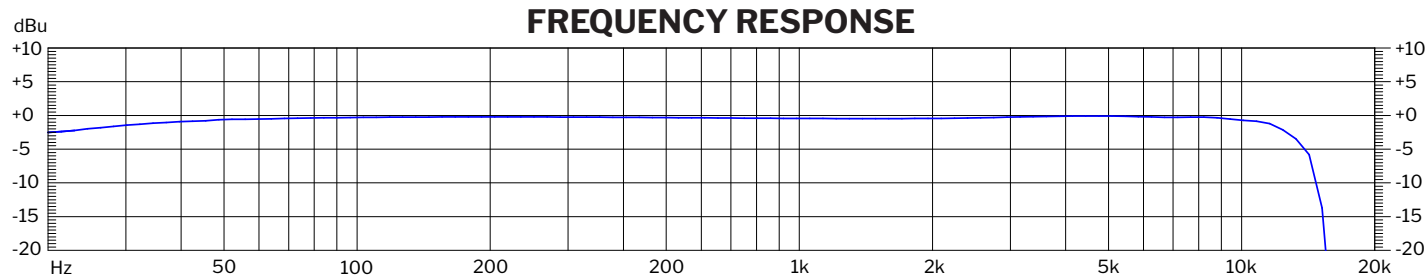


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TECH SPECS

Frequency response	30÷15kHz (stereo). * Shown Above 20÷20kHz (mono). NOTE: custom setting can change audio bandwidth (3/4/12/15/20kHz).
Switchable channels	2400 allocated by 40 groups of 60 channels quickly selectable with dedicated buttons.
Frequency bandwidth	470-800 MHz.
Switching bandwidth	330 MHz tuneable in 5 kHz steps.
Temperature range	-10 ÷ +55 °C (14° - 131°F).
RF output power	Selectable: 10,20,50,100,200 mW (ERP) for MTK952-0W2.
Max RF output power	MTK952N-0W2: 200mW. MTK952N-2W0: 2Watt. [NOTE] RF power can be limited on frequency base accordingly to specific country restrictions (software based)
"TX1" / "TX2" antenna output	with BNC type female connectors (for MTK952). with N type female connectors (for MTK952N). 2xBNC type female connectors (only for MTK952N with MS option).
M-S I/O	50 Ω.
RF impedance	50 Ω.
Spurious emissions	< 2 nW (in the transmitter bandwidth).
Modulation	FM, MPX Stereo or mono, selectable with dedicated menu.
Peak deviation	±56 kHz for mono, ±48 kHz for stereo (preset mode). NOTE: custom setting can set peak deviation from 2kHz to 100kHz.
MPX Pilot tone	19kHz.
Tone squelch	32.789Hz (for Wisycom wireless microphone, i.e. ENR/ENC). 131,8 (for Wisycom intercom, i.e. NR). NOTE: custom setting can change the Tone squelch (30-260Hz and 18-38KHz).
Analog audio input	
Connector type	XLR-3 / 1/4" (6,3mm) jack combo socket, electronically balanced.
Max. input level	+18dBu.
Pin Assignments	XLR: 1=ground 2=hot 3=cold. 6.35mm (1/4") TRS: Tip=hot Ring=cold Sleeve=ground.
Monitor output	
Connector type	6.35mm (1/4") jack socket, balanced.
output level	120+120mW@24Ω, 80+80mW@150Ω.
out impedance	25Ω for auricle.
Digital audio input	
Connector type	AES3 on XLR-3M (32kHz ÷108 kHz)
Compander	ENR (Wisycom Extended-NR), with independent Attack- and Recovery-time, noise optimized. ENC (Wisycom Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys. NONE-d50, no compander, pre-emphasis 50 μs NR, to work with Wisycom Intercom system. Other compander on request.
Display	64 x 256 OLED (yellow).
Configuration/monitor interfaces	10/100 Base TX Ethernet port on RJ45 connector.
Power supply	90 - 264 V AC, 50/60 Hz. Option DC: 10÷19 VDC (NOTE: increased to 10÷28 Vdc since May 2015), Max 7A.
Dimensions	19"/1U 483 x 407 x 43,8 mm (WxDxH) with brackets.
Weight	3.8Kg (version 200mW with DC and MS options); 4Kg (version 2Watt with DC and MS options)



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WISYCOM™ MPR50-IEM WIDEBAND, TRUE-DIVERSITY IEM RECEIVER

The **MPR50** is a compact, belt-pack style true-diversity receiver designed for professional in-ear monitoring applications.

True-Diversity Reliability This receiver features a real true-diversity configuration along with a unique wide-band tuning range up to 232MHz (470-798MHz range), so each receiver can be used anywhere, on any tour.



Multi-Companding Precisely handling the second part of the companding process, the MPR50-IEM accurately expands the delivered audio signal with Wisycom's proprietary ENS companding algorithm with separate release/ attack.



Audio Headroom The expanded audio signal is decoded with stereo MPX audio processing for recreation of the source stereo or mono audio program material and delivered with our specially designed headphone amplifier designed to maximize headroom with peak-dynamic of +23 dBm (200mW).

23 dBm



Batteries Designed for flexibility to fit the unique needs of stage productions, the MPR50 accommodates several battery configurations by allowing the use of disposable and rechargeable batteries including:

- 2 AA NiMH or Alkaline
- C3-V3 battery pack
- KLIC 8000 or CR-V3R lithium (i.e. DR9708 duracell)

Other Features:

- Onboard charging via integrated micro-usb-B connector.
- Easy to use thanks to an OLED display
- Dedicated function buttons & TX/RX frequency sync function
- Automatic receiver programming with RX Manager application and micro-USB cable or infrared via optional UPKmini
- FM IFB mode with NARROW-BAND modulation to enhance noise immunity and coverage (SW selectable)



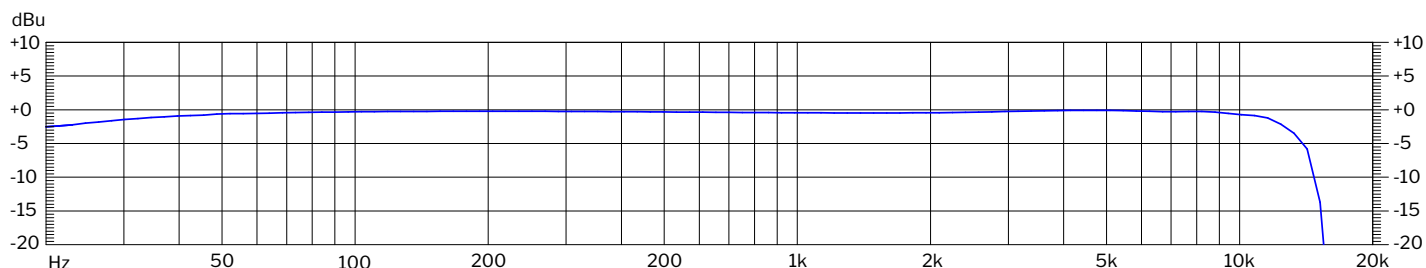
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FREQUENCY RESPONSE



TECH SPECS

Frequency ranges	N ⇒ option 470 ÷ 700 MHz. M ⇒ option 566 ÷ 798 MHz. other ranges are available on request in 470÷798 MHz.
Switchable channels	40 groups of 60 channels fully user programmable.
Switching-window	up 232 MHz.
Frequencies	Microprocessor controlled frequency synthesizer circuit, with 25 kHz minimum step. The frequencies can be easily PC reprogrammed with USB interface of optional UPKmini/UPK300E Programming Kit.
Frequency error	< ± 2.5 ppm, in the rated temperature range.
Temperature range	-10 ÷ +55 °C.
Modulation	FM, (stereo MPX decoding, 19 kHz sync carrier) or 100 kHz narrowband IFB (SW selectable).
Peak deviation	±48 kHz.
"A"/"B" antenna in	with sturdy connectors.
Antenna input imp.	50 ohm sma type (SWR < 1:2; typ. 1:1.4).
Sensitivity	⇒ 2 µV (6 dBµV), for SND/N > 52 dB; in the whole switching-window [1].
Co-channel rejection	> 2.5 dB.
Adjacent channel selection	> 80 dB typical (for channel spacing ≥ 400 kHz).
Spurious rec. rejection	> 100 dB.
IF image rejection	> 90 dB.
Intermodulation rejection	> 76 dB.
IIP3	> +10 dBm typical.
Spurious emissions	< 2 nW (typical = 0.1 pW).
Noise Reduction	⇒ ENS (new).
AF bandwidth	30 Hz ÷ 15 kHz.
Frequency response	± 0.5 dB in the 30 Hz ÷ 15 kHz range.
Distortion	0.3 % typical.
SND/D ratio	90 dB typical [1].
Stereo separation	> 60 dB.
Display	Display OLED 128x64 (white).
Powering	2 x IEC-LR6 1.5V size-AA alkaline or rechargeable elements.
Weight	100 g approx. without batteries.
Headphone-output	Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 200mW @ 32 Ohm.
Battery life	approx. 4,5 hours (alkaline batteries), 6 hours (lithium batteries).



Subject to change without notice



CSI16T is a passive wideband combiner designed to work up to 3W of power.

CSI16T communicates with Wisycom transmitter (i.e. **MTK952N**) through coaxial inputs and allows a smart power management: combiner loss are automatically compensate on Tx side!

FEATURES:

- ✓ RF combiner able to combine 16 inputs into 4/2/1 outputs
- ✓ Selectable combination thru a 3 positions selector on front panel

[16:1] or 2x [8:1] or 4x [4:1]
- ✓ Used with MTK952N permits to recover the combiner loss
- ✓ Wide band operation 470÷800MHz
- ✓ High input power up to 3W
- ✓ Selectable extra compensation in the [16:1] configuration: connected to another combiner CSA121T, it is able to recover up to 15dB of loss

Technical Data

Input Connectors: 16 BNC-F, 50 Ω of impedance

Output Connectors: 6 N-F, 50 Ω of impedance

Max input power: 3W (for each input connector)

Bandwidth: 470 ÷ 800MHz

Case: Aluminum, black varnish

Power supply : AC connector 90÷264Vac /47÷63Hz, (fuse protected) T2A-50W max
: DC connector 10÷ 28 VDC

Combiner loss:

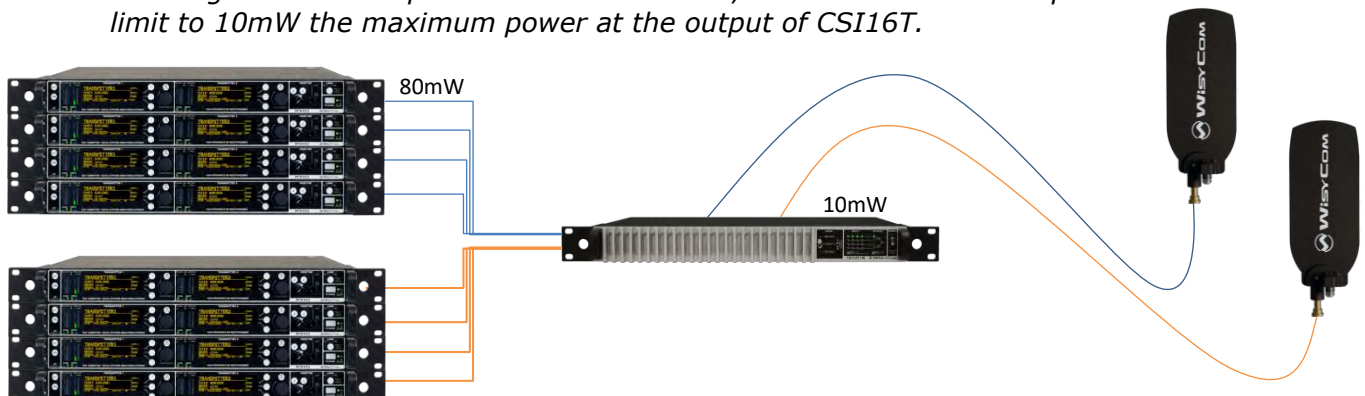
- approx. 6 dB for 4x [4:1]
- approx. 9 dB for 2x [8:1]
- approx. 12dB for [16:1]

Combiner loss can be automatically recovered from MTK952Ns connected to CSI16T:
MTK952Ns raise power accordingly to the loss, while keeping the limit on output port (country based).

Example: Combiner 2x [8:1] configuration with high power transmitters:

Country power limit: 10mW

Enabling external compensation on MTK952Ns, the transmitters raise power of 9dB in order to limit to 10mW the maximum power at the output of CSI16T.





ACM50 is a 1RU battery charger capable of simultaneously charging up to 10 lithium batteries in less than 2 hours. Designed for easy to rack mounting/ dismounting, this lightweight unit is a complete charger with Charge and Fault LEDs to indicate charging status. Powered by 90 - 264Vac or optional AL1265XF DC supply.

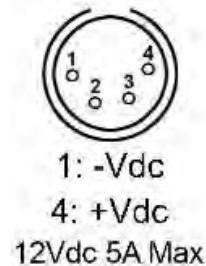
MAIN FEATURES

- 10 independent recharging battery slots
- Charge and Fault LED Status Indicators
- Extremely compact and lightweight
- < 2 hours to charge up to 10 batteries
- Optional DC power supply (optional AL1265 DC Power Supply)



TECH SPECS

Battery Slots 10:	Time until full charge 2 hours
Power supply:	AC connector 90÷264Vac /47÷63Hz, (fuse protected) T1 A/250vac 60W max
	DC connector 10÷ 28 Vdc
Temperature range:	0°C ÷ +45 °C
Case:	Aluminum, black varnish
Weight:	1,60 Kg
Dimensions:	19"/1U, Depth 120mm



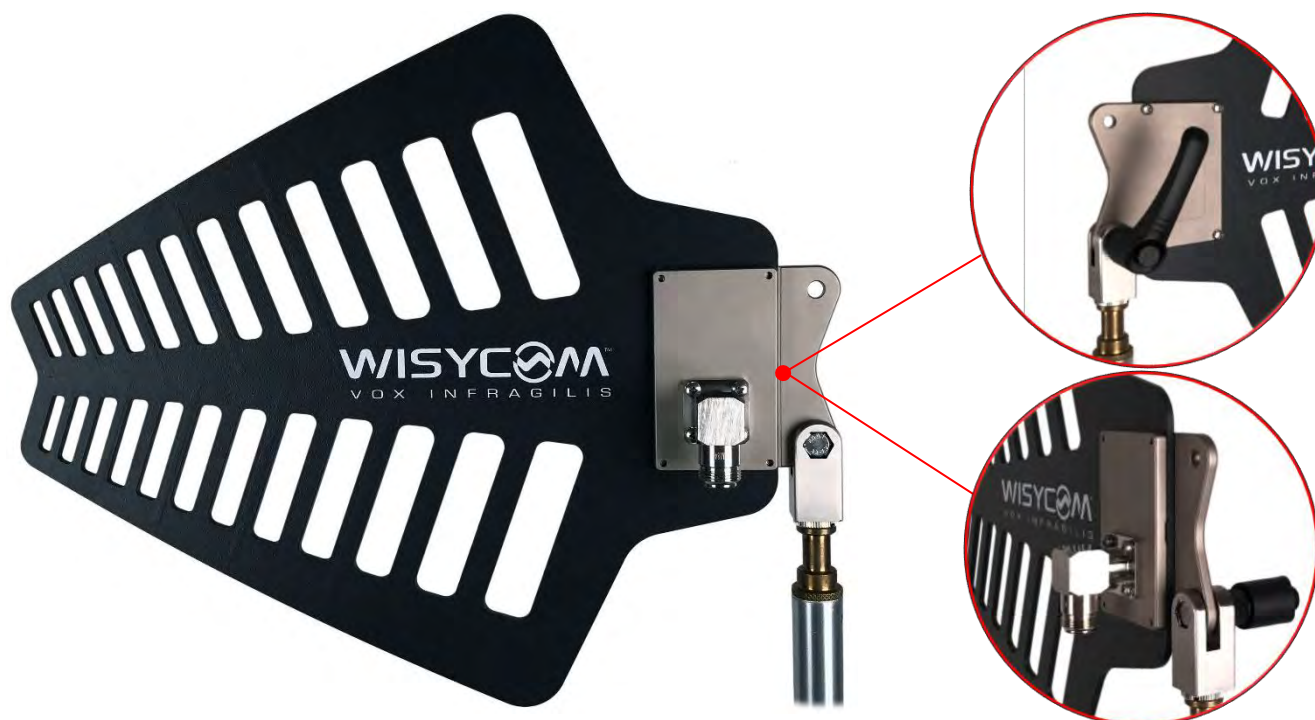
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UHF WIDEBAND ANTENNA 420-1300 MHz



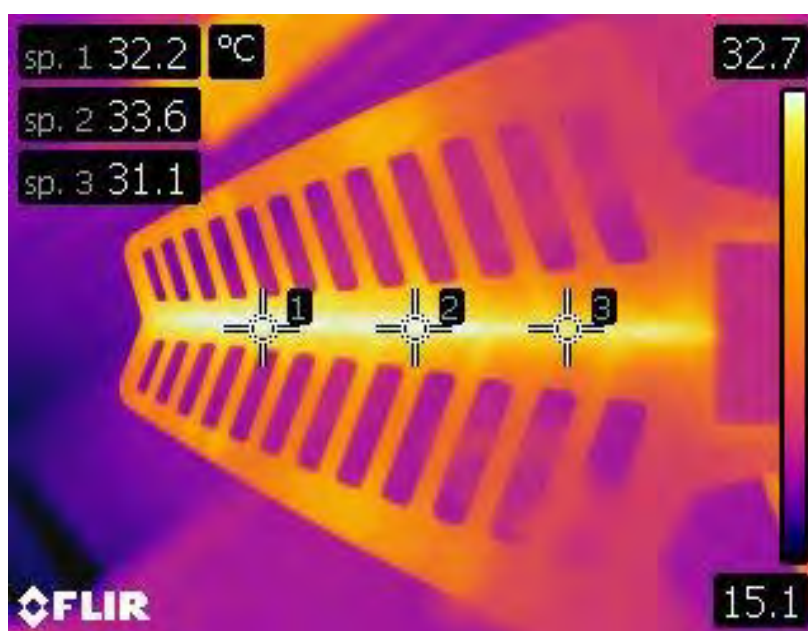
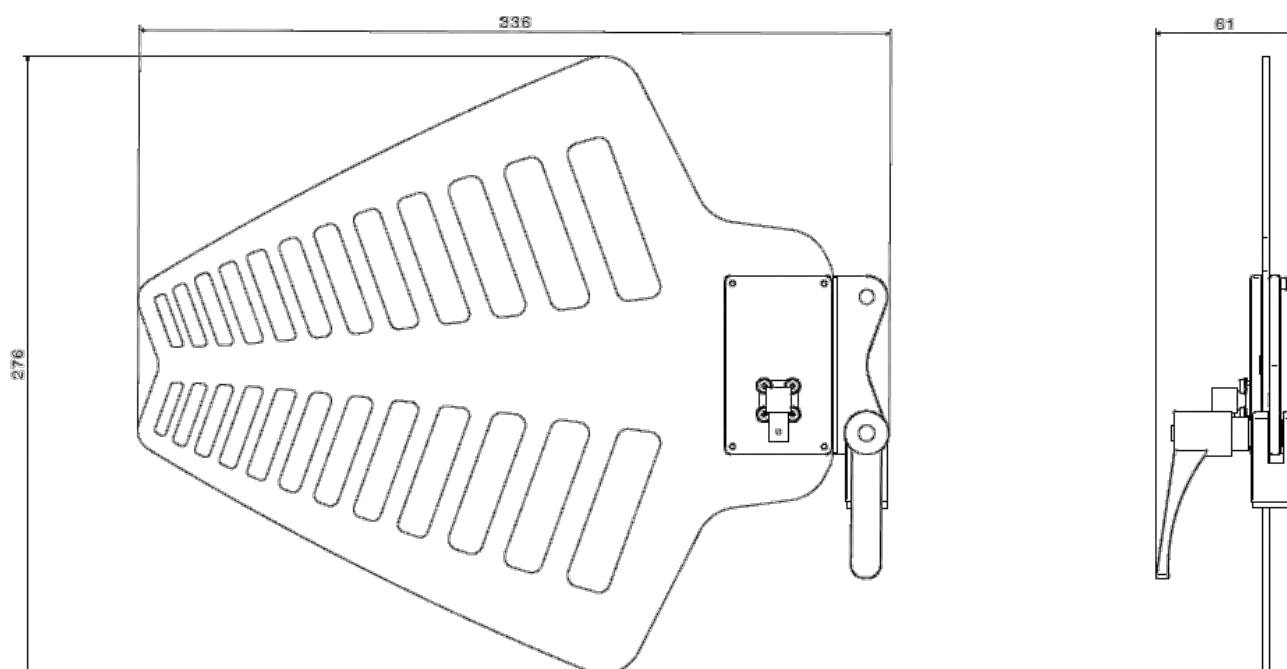
LBN2/LNN2 is a wideband UHF antenna LPDA (log periodic dipole Array). It enhances reception providing approx. 7 dBi gain with a typical beam-width of 140 degrees. LNN2 is provided with BNC connector (LBN2 version) or N connector (LNN2 version).

Key Features

- Skeletal Design for Minimal Wind Loading
- Bend elements for maximal directionality with minimum size (6 dBi gain)
- Future proof huge reception bandwidth → 420-1300 GHz to cover:
 - ✓ Intercom transmission (i.e. Motorola)
 - ✓ wireless microphone reception in 470-700 MHz
 - ✓ 4G duplex gaps
 - ✓ 940-960 MHz band
 - ✓ Future up-GigaHz bands (i.e. DME)
- Robust metal support with fine slope tuning
- Full metal support and mounting base (1/4" & 3/8")
- Textured Weather-Resistant Coating
- Waterproof with gasket sealing
- BNC or N connector available

Technical Data

- Frequency range: 420 - 1300 MHz
- Size: 336 mm L x 276 mm H x 61 mm D
- Material: Epoxy fiberglass (copper –clad)
- Connector: BNC type (for LBN2), N type (for LNN2)
- Finishing: Black matte
- Mounting: 5/8" With worth or 3/8" with adapter
- Weight: 500g (LBN2), 550g (LNN2)



ADN (N-type connector) and **ADB (BNC connector)** are wideband, UHF omnidirectional antennas (400-937 MHz) designed to enhance reception by providing approx. gain of 3.2 dBi.

The **ADNA UHF** Omnidirectional Antenna includes an **ADN with attached 18dB amplifier** adjustable in 1dB increments (470-870 MHz). *Bypassing the amplifier will increase bandwidth to 400-937MHz.

TECH SPECS

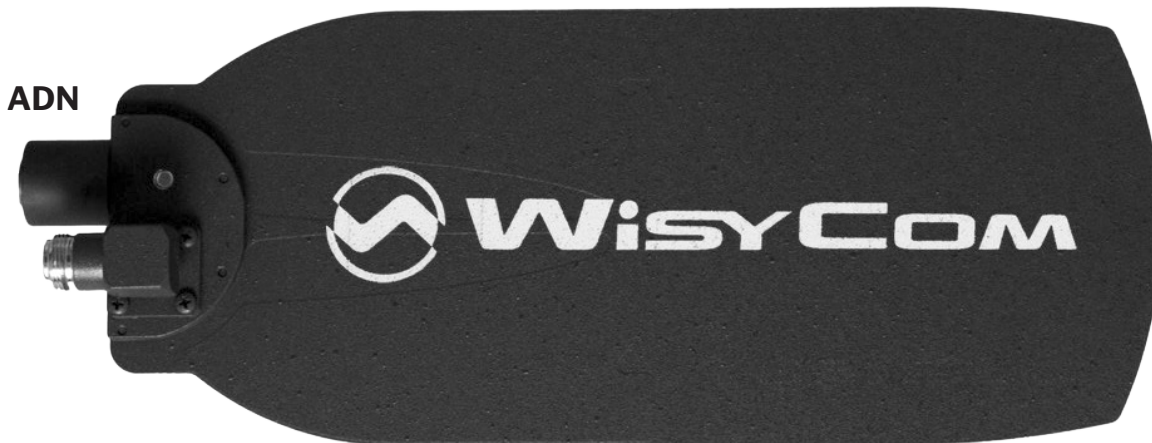
Frequency:	ADNA (470÷870 MHz)*, ADN (400÷937) ADB (400÷937)
Input/output impedance:	50 ohms
SWR:	<1:1.5 in the range 450÷870 MHz <1:1.9 in the range 400÷937 MHz
Connectors:	N-type (ADN, ADNA) or BNC (ADB)
Booster Gain (max):	0÷18 dB (typical), selectable in step of 1 dB (+/- button)
OIP3:	+43 dBm (Output 3° order Intercept Point) typical
Booster Gain flatness:	1 dB, in the whole working window.
Powering:	+12 V, 100mA
Material:	Epoxy fiberglass (copper – clad)
Finishing:	Black matte
Mounting:	5/8" with worth or 3/8" with adapter
Weight:	235 g (ADB), 385 g (ADN) (300 g) ADNA

TYPICAL CABLE ATTENUATION / 100M

Cable type	Diameter (mm)	Attenuation @ 400 MHz	Attenuation @ 900 MHz
RG 58 C/U	4.95	32 dB	52 dB
RG 213 /U	10.3	13 dB	22 dB
RG 218 /U	22.1	7 dB	14 dB
Cellflex - 1/4" foam dielectric	8.8	8.4 dB	12.8 dB



ADNA



ADN



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