



# ARK3000

## ANTENNA DISTRIBUTION SYSTEM

- 8 antenna inputs and 16 receiver outputs
- Frequency range 20 – 3000 MHz
- Solid state switching matrix
- Seamless Integration
- Local and remote control (Ethernet) as RoIP element
- Modular structure



**IRITEL**  
*bright connections*

# ARK3000 Antenna Distribution System

Antenna Distribution System ARK3000 receives signals from the eight antennas in the frequency range from 20 MHz to 3 GHz and distributes / switches received signal to the sixteen receivers whereby any of RF outputs can be assign any antenna, or pre-defined combination of antennas.

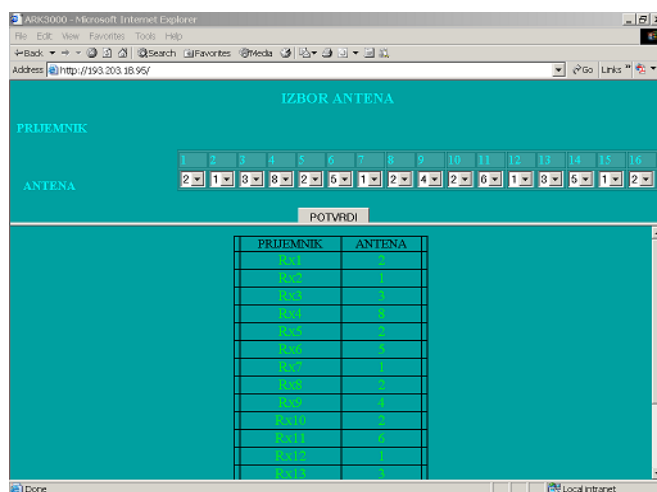
- Control via RS232 or USB interface
- Adaptation of protocols and structure of management posts in order to emulate the existing antenna distributor

## General characteristics

- Control
  - Local via front panel (touchscreen)
  - Remote via Ethernet link, using any Internet browser via the intuitive user interface
- Easy integration into automated systems for monitoring radio spectrum and radio-surveillance
- Working in an autonomous / manual mode

## Options

- Digitally controlled attenuators on inputs
- DC power supply 12 V/24 V/48 V
- Different types of input connectors
- Different types of input filters



Control over Internet

## TECHNICAL DATA

### Antenna Inputs

<b>Number of inputs</b>	8
<b>Frequency subband input</b>	
VHF1: 20 – 88 MHz	2 inputs
VHF2: 110 – 180 MHz	2 inputs
VHF/UHF1: 225 – 470 MHz	2 inputs
UHF1: 100 – 1400 MHz	1 input
UHF2: 500 – 3000 MHz	1 input
<b>Input impedance</b>	50 Ω
<b>Input SWR</b>	≤ 3
<b>Maximum input level</b>	+ 17 dBm
<b>Attenuation of input to output</b>	
VHF1	≥ 60 dB
VHF2	≥ 50 dB
VHF/UHF1	≥ 50 dB
UHF1	≥ 50 dB
UHF2	≥ 50 dB

### RF outputs

<b>Number of RF outputs</b>	16
<b>Output impedance</b>	50 Ω

<b>Output SWR</b>	≤ 1.5
<b>1dB compression point</b>	> +10 dBm
<b>Attenuation between any two outputs</b>	
VHF1	≥ 50 dB
VHF2	≥ 45 dB
VHF/UHF1	≥ 45 dB
UHF1	≥ 45 dB
UHF2	≥ 40 dB
<b>IP2 (the second order intercept)</b>	min 35 dB
<b>Type of connectors (input/output)</b>	N
<b>Gain</b>	min 1 dB
<b>Noise ratio</b>	≤ 5 dB
<b>Interface for remote Control</b>	Ethernet 10/100 Mbit/s
<b>Power</b>	220V ±10 %, 50 Hz
<b>Consumption</b>	50 VA
<b>Dimensions</b>	480 x 133 x 365 mm
<b>Weight</b>	15 kg
<b>Operating temperature range</b>	-5 do +45 °C