

BARIX

REDUNDIX

Quick Install Guide Version V1.0

Redundancy device for IP-based STL connection

Package contents

- a Barix Redundix
- b Power supply

Cable Set (not included)

- a Network cable

Firmware

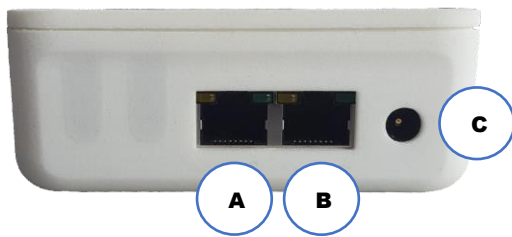
This device comes preloaded with Redundix firmware.

Latest Redundix firmware can be downloaded from www.barix.com

Support

For support please contact your local dealer or visit www.barix.com

Side A



A WAN port 10/100 RJ45

Description

1 Common Ethernet RJ-45 10/100 port

B LAN port 10/100 RJ45

Description

1 Common Ethernet RJ-45 10/100 port

C Power

Description

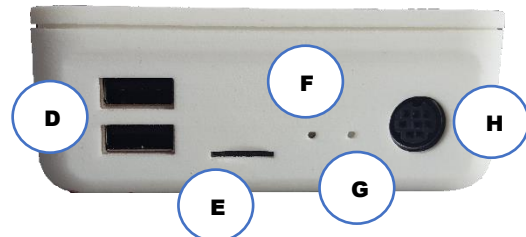
- 1 5 VDC from 4,75 to 5,25 type 5
- 2 2.5 Watt max.
- 3 male connector: 5,5 x 2,1 mm

D USB Interface

Description

- 1 Common USB interface
- 2 Common USB interface

Side B



E SD Card Slot

Description

1 Common SD Card Slot

F Reset Button

Description

Press shortly for reboot or 10 seconds for factory default

G LED Status

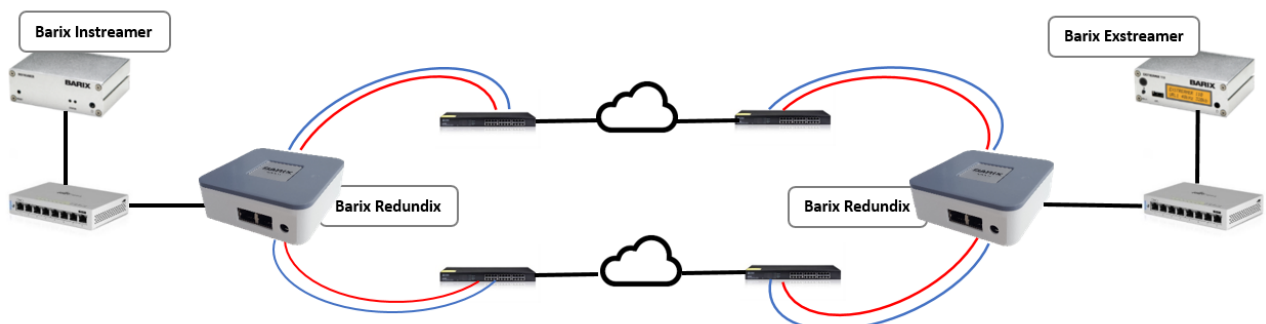
Description

- 1 Red - booting
- 2 Green static - ready
- 3 Green blinking - streaming

H 1-Wire Mini DIN

Description

1 not in use



1 Network installation

STEP 1

Connect the power supplies to the devices (Socket C) and then to an appropriate electrical outlet.

STEP 2

Connect first to the preconfigured IP-address of your new Redundix device which is always 192.168.30.254 - Thereto connect your PC to the LAN interface of Redundix (B), using an ethernet cable, and change the IP address of your PC into 192.168.30.1 or other in that subnet.

STEP 3

For reasons of security every Redundix device has its own password. Check the MAC sticker on the bottom of your device for this unique password.

STEP 4

Open a browser window and enter 192.168.30.254 in the URL bar. You will be prompted to enter the password from the device sticker. Connect to the Redundix configuration page. Go to Configuration and then LAN menu, and configure the LAN interface for static IP address or DHCP in the dropdown field. Choose an IP address, subnet mask and standard gateway out of the same subnet like the encoding device. Click on apply and you will lose connection. For correct network configuration, or DHCP usage, please contact your system administrator.

STEP 5

Place now the devices between encoder and router on the sending site, respectively between router and decoder on the receiving site, and connect the WAN port (A) to the WAN-router. By default the WAN interface of Redundix is configured to DHCP.

STEP 5

Connect the encoding device with RJ-45 cable to a local switch, or alternatively directly to the LAN port of the Redundix device (port B). Connect on the other side the decoding device to a local switch, or directly to the second Redundix device (port B).

STEP 6

Connect the WAN port of the Redundix device (A) to your main ISP router. By default the WAN interface of Redundix is configured to DHCP.

STEP 7

Change IP address of your computer into the subnet which you configured for Redundix and connect your computer with the local switch, using an Ethernet cable. When connecting directly to Redundix, you have to connect again to the LAN port of Redundix (B) and disconnect the Encoding device.

2 Network Configuration

STEP 1

Open a web browser and connect with your Redundix device entering the new IP address in the address bar of your browser. Enter the password.

STEP 2

Go now to Configuration and WAN menu and configure the WAN IP address, or check the DHCP settings. Click on apply.

STEP 3

Go to Configuration/Basic settings to organize your redundancy parameters. Choose in the dropdown menu the role of your Redundix device as a Sender or Receiver.

STEP 4

Redundix can be configured for two redundancy modes - 'ReliaTime' with a time delay on the same interface, or as 'ReliaDuet' with a separate routing path. Configure the RTP Listener Port (port between Encoder and Redundix) to a number between 10000 and 65535, configure the Destination RTP port to another 5 digit number, which must be the same on the listener port of the second Redundix device. Put the destination IP WAN, which is commonly the destination router public address, and specify a delay of the second stream in the field RTP Time diversity, for example 300ms, to add your first redundancy. Up to 10'000 milliseconds can be specified. Check with your system administrator for port forwarding on the destination router.

STEP 5

If using Relia Duet as a redundant technology, go to configuration/Basic settings and choose ReliaDuet. Configure the RTP Listener Port (port between Encoder and Redundix) to a number between 10000 and 65535, configure the Destination RTP port to another 5 digit number, which must be the same on the listener port of the second Redundix device. Put the IP address of the destination router in the field Destination IP WAN, and configure the IP WWAN field for a redundancy connection on the WLAN-interface. The destination router must have a WLAN functionality, ideally you choose a totally separated router. If you enter an RTP time diversity value, Redundix will automatically raise two delayed streams on both lines, and you can use the full power of your Redundix. If you leave the field empty it's a simple divergent routing.

STEP 6

To finish your WLAN settings, go again to configuration and WWAN menu and enter an IP-address out of your local WLAN range, subnet mask, standard gateway and DNS server – leave DNS empty if no information available. In the lower fields enter the SSID of your WLAN, the encryption mode and the encryption key. If you are not sure about your WLAN settings, refer to your computer's WLAN settings. For DHCP and general network questions, please ask your system administrator.

STEP 7

If you configured the WAN interface of your Redundix device with a new subnet, configure the router interface with the same subnet. Please ask your system administrator for a correct router handling.

STEP 8

Do the same approach (1-7) with the second Redundix device, and in the subnet where the decoding device ist located.

NOTE: If you choose 'Receiver' as device type, the Basic setting fields will slightly change. Configure the RTP listener port with the same number (10000-65535) which you gave as Destination RTP port on the first Redundix. Choose another 5 digit number in the field Destination RTP port, which must be the same on the receiving decoding device. Enter the IP address of the decoding device in the field Destination IP LAN. Configure the field RTP Time diversity to a value which is at the minimum 300ms higher then on the sending device, so Redundix can fill up the buffer.

STEP 9

Go to your ENCODER's web interface, streaming-menu, and enter as Connection type RTP, and as streaming destination the LAN address of the first Redundix device with the same port number you set as RTP listener port on Redundix.

STEP 10

Go to your DECODER's web interface, and choose as a streaming source RTP and the IP address of the second Redundix device. Enter the same port number which you set to Destination RTP port on Redundix. Alternatively you can leave the IP address on rtp://0.0.0.0:33333

Troubleshooting

If you have doubts about the current device settings you can revert the device to its factory defaults by pressing the Reset button (G) for 10 seconds). For latest firmware and support please visit www.barix.com.