

# The irNetBox IV



Updated and improved, the fourth generation of RedRat's flagship IR controller, providing independent control of up to 16 different audio-visual devices, such as TV's and set-top boxes.

## Physical Specifications

- 19 inch 1U rack mountable case – depth of 95mm
- Powered via Ethernet (PoE) or optional 9V, 2A power supply
- Typical power consumption:
  - Idle < 2W
  - In operation 5W to 10W
- OLED display for showing operational status: IR port activity, network configuration, etc
- Menu navigation key panel for setup and box control
- Connections on rear: RJ45 Ethernet socket, 16 x 3.5mm jack IR output ports

## IR Output Specifications

- Can generate 16 typical different IR signals simultaneously
- Maximum IR throughput in excess of 80 IR signals per second (tested using a representative set of standard IR signals)
- Carrier frequency ranges:
  - 5KHz to 600KHz – up to eight non-adjacent ports simultaneously (above 300KHz only certain frequencies available)
  - 5KHz to 300KHz – up to 16 ports simultaneously
- Each IR output has an output level setting of 0 (off) to 100
- Each IR output can be switched between current and voltage drive modes:
  - Current drive [default] – used for driving IR LEDs.
  - Voltage drive – used for interfacing to IR distribution systems (Buffalo, Xantech, e.t.c)
- Maximum IR LED drive current:
  - 70mA for the standard IR emitter as supplied by RedRat Ltd
  - 120mA for high powered IR LEDs

## Self-Test Functionality

- Power supply input voltage and on-board voltage levels
- Drive current through IR LEDs

## Approvals

- RoHS compliant
- CE electromagnetic compliance to the following standards:
  - EN55032:2012 Class A
  - EN61000-3-2:2006 (+A1/A2)
  - EN 61000-3-3:2008
  - EN55024:2010
- FCC compliant to the standard 47CFR Part 15 B Class A

