



Model IP-2002

Radio over IP 2 Line Small Footprint Controller

- **Police and Fire Service**
- **Public Safety Sports and Stadiums**
- **Utility and Energy Companies**
- **Railway and Airlines Industries**
- **Environmental Agencies**

The Cyfas IP-2002 is a two-line full-featured desktop control console designed with VoIP Technology for use with conventional radio systems. The IP-2002 is a self-contained dual processor based console that does not require a CEB or under the desk CPU equipment.

The IP-2002 can be easily connected to any internal Ethernet network by connecting a standard 10/100 baseT cable to the back of the unit and assigning it an IP address, thus allowing for an unlimited number of IP-2002 consoles to have full control and functionality over the system. Unlike analog circuits any number of consoles can be put in parallel without causing loading issues.

To program the IP-2002 console you simply connect to the

Ethernet port on the back of the console and use your favourite Web Browser on your computer.

The IP-2002 console has the capability of controlling a crosspatch between its two lines. The dispatcher can also inject audio into the crosspatch while operating.

Its two-line Vacuum Florescent Display provides channel alpha/numeric indication and features a 12/24-hour clock and audio-level display.

The IP-2002 comes with many standard features such as F1-F4 direct entry function tones, Alert tones, DTMF Keypad, NEO-10 Relay Control, Parallel update, DTMF Select Call per line, Paging (2-tone, DTMF and Manual entry). Instant call recorder allows you

to retrieve the last 30 seconds of speaker audio, Scan, Channel Up/Down, Group Up/Down, Supervisor and Cross Mute controls. The IP-2002 supports control of trunking radios when paired with an IP-223 and supported radio model.

The IP-2002 console is compatible with Cyfas's other VoIP products such as the C-6200, IP-223 and C-Soft.

Through these platforms Motorola, M/A Com, Daniels, Kenwood and other tone or direct connected radios can be remotely controlled. The migration path created with our VoIP products allows users to make a gradual move to the benefits of the VoIP world.

Features

Front Panel Controls

- Monitor, Intercom, PTT
- Alert tones up to two
- Crosspatch
- Supervisory Control
- 16 digit DTMF keypad
- Volume controls
- Parallel TX LED detect
- Frequency Selection
- Menu button for direct menu access
- NEO-10 Relay control
- Paging (2 Tone, DTMF, and Manual)

Features

- 100 Talkgroup/Frequency Control
- Simplex/full duplex (field Programmable)
- Cross mute (Ethernet based)
- Parallel console update
- Paging (2 Tone, DTMF, and Manual)
- IRR (Instant Recall Recorder)
- Line select call with alarm

Special Features

- Ethernet VoIP connection between consoles
- External PTT
- External audio input
- External Aux power input
- Per line recorder outputs
- Field upgradeable software
- SNTP based network clock synchronization
- QOS (Quality of Service) packet marking built in

Microphones and Accessories

- Handset/Headset (Handset included)
- Desk Mic (P/N MD-MS)
- Footswitch (P/N FS-1)
- Wall mount kit (P/N WMK1)

Specifications

Distortion: 3% maximum at full output

Hum and Noise: 50dB below operating levels

Speaker (two): 3 in, 8 ohm, heavy duty

Amplifier Power: 2 W maximum at 3% THD into an 8 ohm load or equivalent

Optional Handset Earpiece Level: Adjustable preset level independent of speaker volume controls

Audio Frequency Response: ±1.5 db, 300 to 3000 Hz (non vocoded)

Operating Temperature Range: 0 to +70 degrees C

Power Requirements: 230 Vac, 50Hz, 25W, or 12 Vdc at 700mA maximum

Microphone Connection: Handset and Headset are 4-wire and the desk microphone is 6-wire

Dimensions: 8in (20.3cm) W x 10in (25.4cm) D x 4.5in (11.4cm) H

Weight: 5 lb(2.3 Kg)

Specifications subject to change without notice

Warranty (Limited)

All Cyfas products are guaranteed against malfunction due to defects in materials and workmanship for one year, beginning at the date of original purchase. If such a malfunction occurs, the product will be repaired or replaced (at our option) without charge during the one year period, if delivered to our factory.

Warranty does not extend to damage due to improper repairs, finish or appearance items, or malfunction due to abuse or operation under other than the specified conditions, nor does it extend to incidental or consequential damages.

Claims

No liability will be accepted for damages directly or indirectly arising from the use of our materials or from any other causes. Our liability shall be expressly limited to replacement or repair of defective materials.

Supplied & approved in the European Union by

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