

Now with Layer III and split modes



EAGLE is a multi-format dual-channel audio codec with analog and AES/EBU digital input and output, with a dual display to facilitate operation, and with multiplexing capability between the two ISDN "B" channels, in one rack unit height.

BENEFITS AND SPECIAL FEATURES

- **Member of the family:** From a multipoint network, a suite of and other equipment can be controlled, making a system of first-class features and powerful functions.
- **Built-in ISDN terminal adapter,** with dual-port ETSI- (Euro ISDN) and ANSI- (NATIONAL-1) compatible interface, 64 and 128 Kbps communication. It is a part of the "World Wide Ready Series" Family, which includes interfaces allowing its connection to the different worldwide communication networks.
- **Dual channel for all 64 Kbps encoding modes:** G.711, G.722 and MPEG.
- **Auxiliary phone,** available as an intercom and DTMF control on all encoding modes, ideal for control and studio room applications.
- **Headphone monitoring and microphone connector** on the front panel, for easy Central Control Room applications
- **MULTIPLEXING switch** on the front panel, which works with two simultaneous calls, providing intercommunication between both "B" channels .
- **Dual backlit displays:** one for menu configurations, and the other for dialing and access to phone book information.
Metering of send and receive audio, through LED bargraph VU meters, for both channels.
- **AES/EBU analog and digital inputs and outputs,** with 24-bit converters and SRC (Sample Rate Converter).
- **Silent autocontrol operation:** no built-in air fan.

E@sy SOFTWARE FOR eagle

EAGLE can be controlled and configured from a PC connected to the E@sy network in which a series of applications are run, such as: **REAL TIME CONTROL AND SUPERVISION MODULE:**

The application controls the E@sy devices connected to the computer, checking their status and remotely changing their configuration. Users can check on the type of equipment and board, update the telephone directory, establish coding algorithms and start calls by indicating the status of each line, etc.

The standard version also includes an application for updating firmware through the E@sy network itself. .

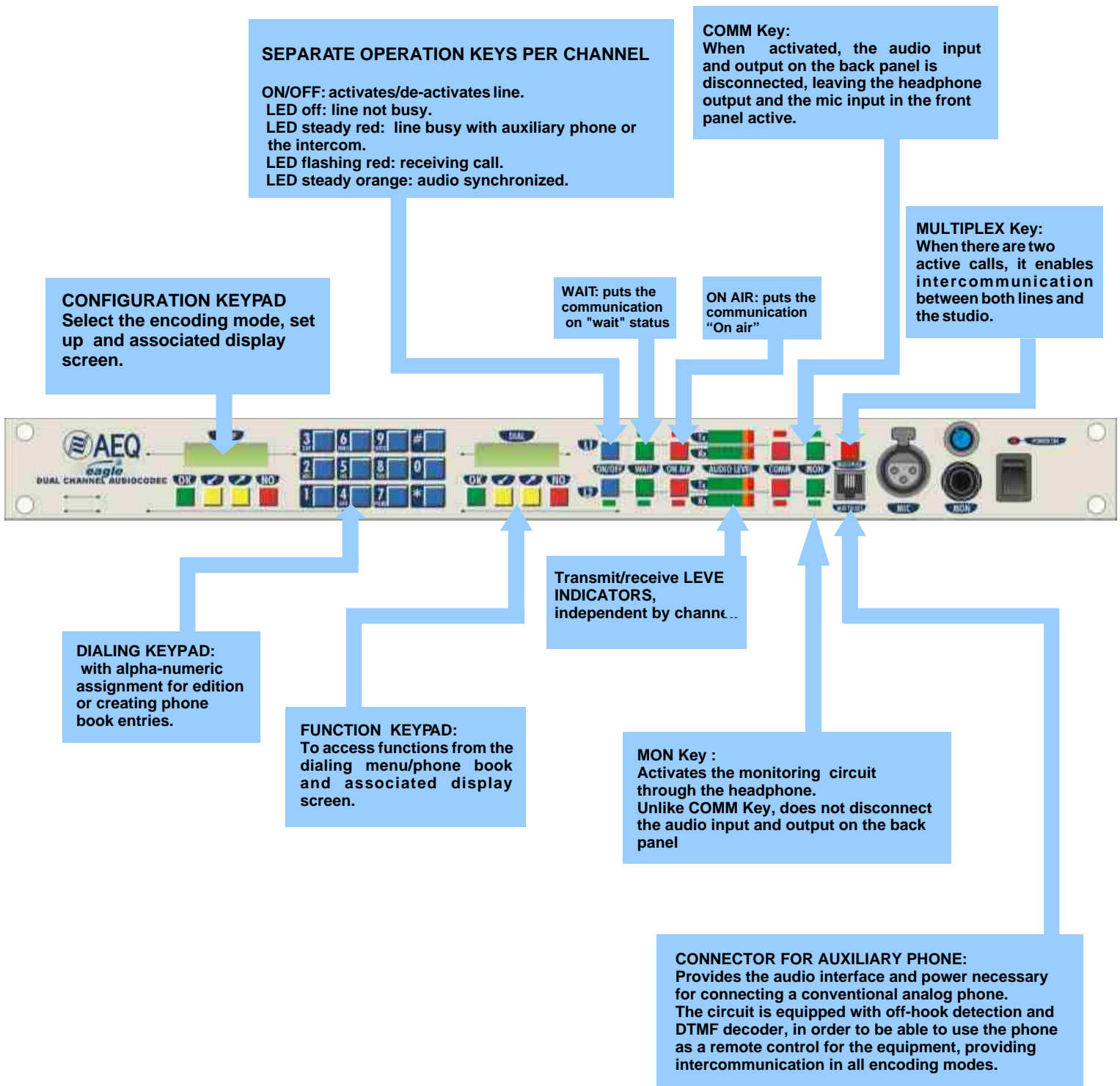
The following applications are optional this is an important added value to the simple control of the equipment.

Codec Share:

Software to share E@gle and Course codecs between studios and route the audio through Impact matrix. Please tell us number of users to order.

System 6000:

Software for Multiplex console and talk show system over ISDN lines. Allows control over Impact, Eagle and Course. Please tell us number of users to order.

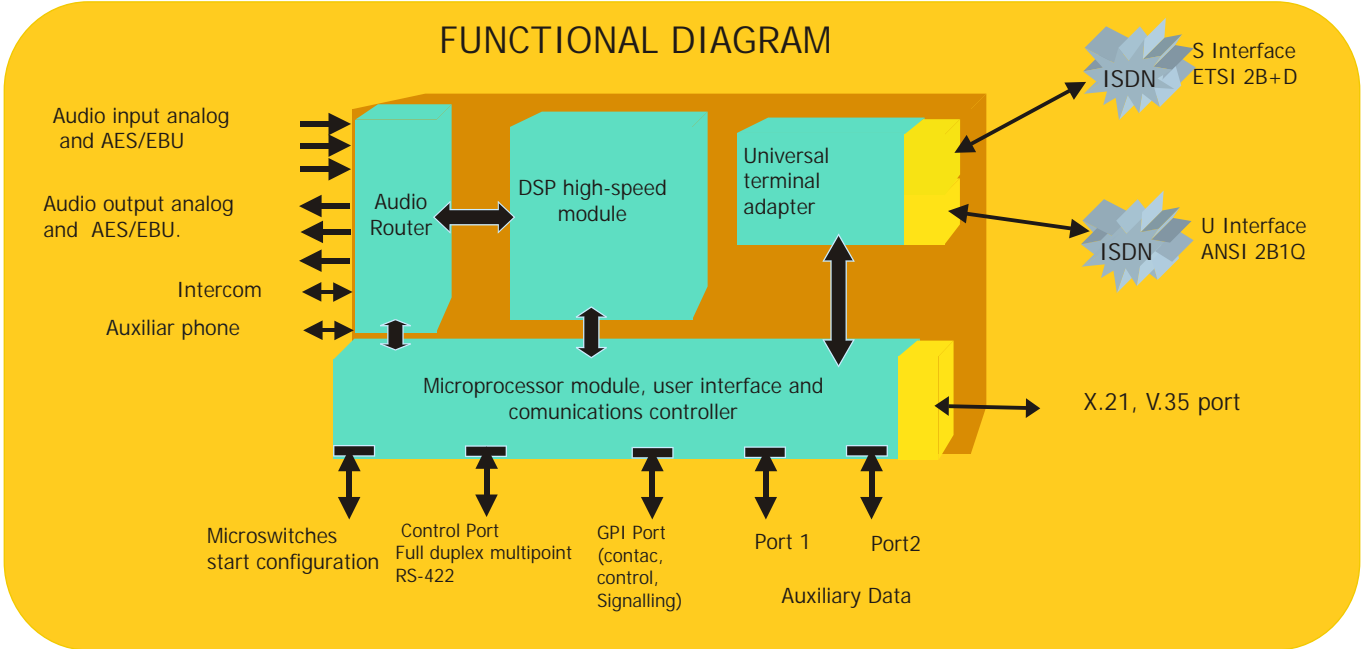


CONTROL MODES



- From the keypad.
- By multi-frequency dialing, from auxiliary phone.
- By contacts, through programmable GPI interface.
- Controllable through the E@sy (Enhanced Automation System) port from one or several PCs up to 128 units of the E@sy family such as RANGER, IMPACT, COURSE and others .

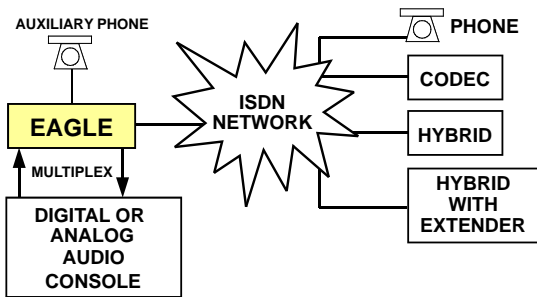
FUNCTIONAL DIAGRAM



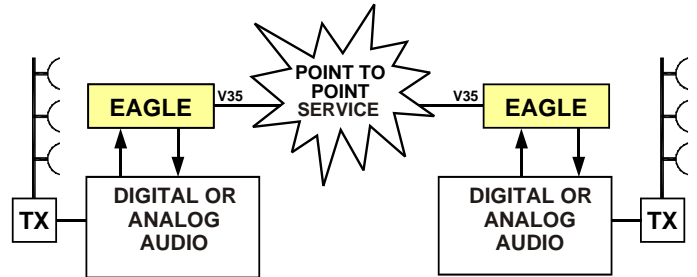
APPLICATIONS



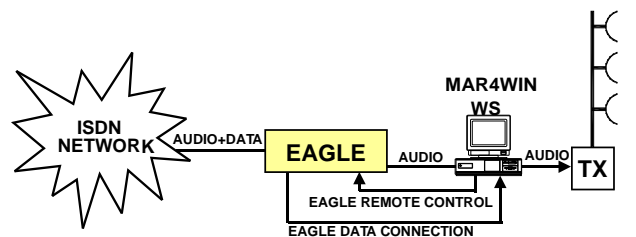
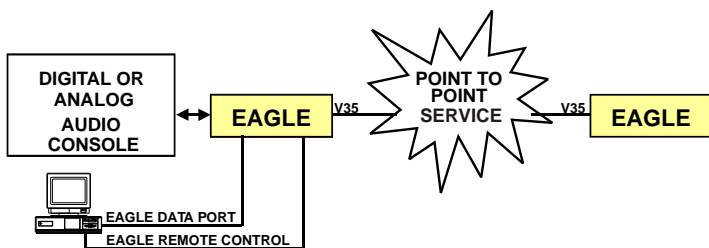
Replacement of an analog, 2-wire hybrid for accepting analog or digital calls.



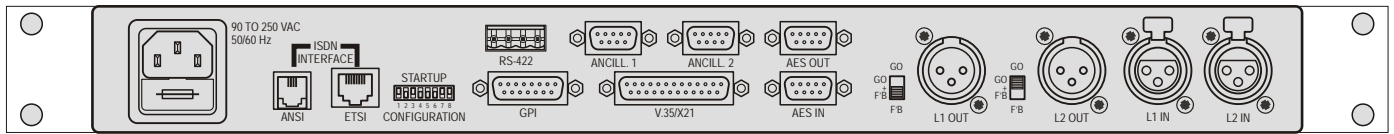
Duplex connection between two radio stations through the point-to-point network.



EAGLE, as an audio and data multiplexor, is used to code audio and multiplex it with a continuous data channel, keeping the applications open throughout the public network. When audio is transmitted, the data channel is reduced to give priority to audio.



This diagram shows the EAGLE codec and the AEQ Automation System, MAR4 Win. The codec receives data commands from the main Studio allowing the remote station to transmit automatically local-network programming.



TECHNICAL CHARACTERISTICS

Ed.: 1-2004

Communications interfaces.

ISDN.

- "S" 2B+D Euro ISDN-compatible interface (ETS 300 012, ETS 300 125, ETS 300102), RJ-45 format.
- "U" 2B1Q ANSI-compatible interface (ANSI T1.601-1992, T1.602-1996, T1.607-1998), RJ-11 format.

Point to point.

- RS-422 physical interface, connectable to V.35 or X.21, DB-25 format.

Analog input/output.

Main inputs.

- Transformer balanced, with built-in RF filters, female XLR-3.
- Input impedance: > 6 kOhms.
- Maximum level: + 22 dBv.
- 24-bit A/D converters.

Intercom mike input.

- Transformer balanced, with built-in RF filter, female XLR-3.
- Nominal level: - 50 dBv.

Main outputs.

- Transformer balanced, male XLR-3.
- Output impedance: < 50 Ohms.
- Maximum level: + 22 dBm.
- 24-bit D/A converters.

Headphone output.

- Stereo, ¼" jack, with volume control.
- Maximum power: 150 mW.
- Takes 8 or 600 Ohm headphones.

Auxiliary phone interface.

- RJ-11 Connector.
- Power supply: 18 mA CC.
- DTMF Decoder.
- On/off-hook detection.

Synchronism and encoding modes.Frequency Response

- G.711 A and μ -law with echo cancellation. 300 Hz - 3,3 KHz.
- G.711 extended AEQ-compatible TLE-02D. 50 Hz - 3 KHz. Echo cancellation.
- G.722, statistical framing. 20 Hz-7 KHz.
- G.722, H.221/H.242. 20 Hz-7 KHz.
- AEQ-H.221/H.242. 32 Kbps. 20 Hz-3,5 KHz.
- MPEG LII at 24, 32 and 48 kHz sample rates, 64 Kbps.20 Hz-11 KHz.
- MPEG LII at 32 kHz sample rate , 128 Kbps, dual.20 Hz-11 KHz .
- MPEG LII at 48 kHz sample rate ,128 Kbps, mono 20 Hz-20 KHz and joint stereo. 20 Hz-15 KHz.
- MPEG LII at 48 kHz sample rate , 256 Kbps, stereo. 20 Hz-20 KHz.
- MPEG LIII at 32 and 48 kHz sample rates, 64 Kbps.20 Hz-15 KHz.
- MPEG LIII at 32 kHz sample rate , 128 Kbps, dual.20 Hz-15 KHz .
- MPEG LIII at 48 kHz sample rate ,128 Kbps,mono .20 Hz-20 KHz
- MPEG LIII at 48 kHz sample rate ,128 Kbps, stereo.20 Hz-15 KHz.
- Universal LIII decoder for all MPEG LIII 64-128 Kbps modes at 48 KHz.
- AEQ-LD 2 at 32 kHz sample rate, 128 Kbps, low-delay. (multi-band ADPCM), mono 20 Hz-15 KHz.
- Split mode:
Channel 1 cod MPEG LIII (48 KHz, 64 Kbps) dec G 722 and viceversa on channel 2
- J.52 and IMUX synchronization in 128 Kbps modes.

Digital audio interfaces.

- AES/EBU (AES-3), with transformer.
- Sample rates supported: from 16kHz to 48kHz.
- Sample rate converters (SRC): range 1:3 and 3:1, 24 real bits without truncating, independent on inputs and outputs.
- External AES-11 synchronism input.
- Dynamic range in the SRC: 128 dB
- THD + noise in the SRC @1kHz: -117 dB.
- Dual AES/EBU interface for independent mono inputs (with different sample rates), configurable to a single dual input.
- Format: DB-9 connectors.

Other interfaces.

- Auxiliary data: DB-9, RS-232, asynchronous, 8 data bits, no parity, 1 stop bit. Configurable speed.
- Remote control: DB-9, multi-point full-duplex RS-422, 38,400.
- GPI (general-purpose interface): DB-15. 2 power pins and 13 programmable I/O.

Power: auto-range, from 90 to 250 VAC, 50/60Hz, with automatic power factor correction.

Standards.

- Electromagnetic Compatibility: EN 50081-1, EN 50082-2.
- CE Marking.