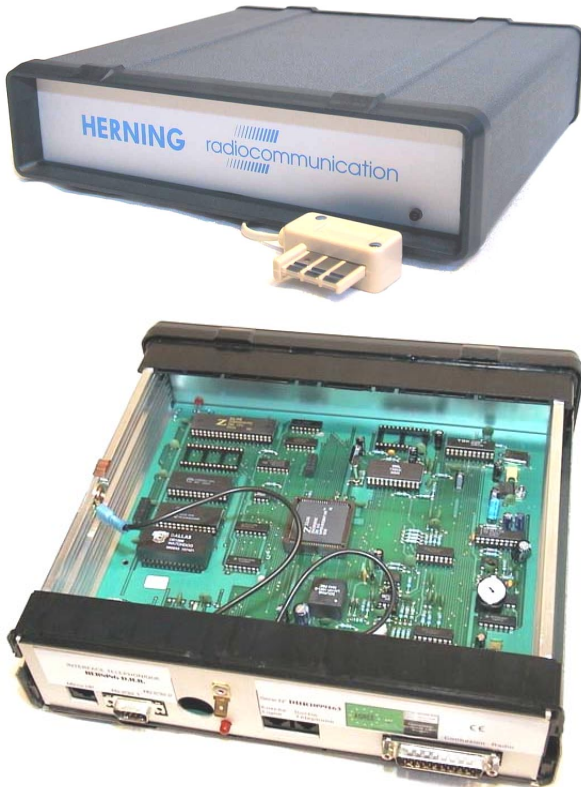


## Telephone network Interface D.H.R. HERNING.



### Introduction

Most advanced interconnect and system manager for your radio network, D.H.R. HERNING :

- Gateway between the public telephone network either through private or public analogic phone line, cellular modem or Inmarsat satellite system and a two way radio network whatever its signaling.
- Provide a software system along with an RS 232 serial port (computer, automatism, printer, modem...).
- Ensure an external audio equipment thanks to a microphone input and a speaker output (intercom, desktop, speech synthesis...).

An easy to do setting and programming software (regularly updated) is delivered along with your D.H.R. HERNING interface.

Since the last two years, HERNING has developed (at very attractive prices) many applications that suit the latest two way radio market demands and applications.

**French A.R.T. agreement N° 98500Z Ed A dated 08/01/98.**

### Features :

#### Radio management :

**D.H.R. HERNING interface is managing the repeater station :** 10 repeater station access codes , emergency code, limit codes, unauthorized terminals users, and conversation time out.

**It may also be linked to a simplex base station :** on a radio network with or without repeater (full vox version).

**Most of connection diagrams for repeaters or mobiles are available on our web site (<http://www.herning.fr/>). But we can deliver D.H.R. HERNING interface all wired and already adjusted to your radio network.**

#### Telephone management :

**Telephone to radio :** Incoming calls very easily managed : Automatic or manual pick up, with or without over dialing (possible ID), with or without acknowledge and automatic terminal pick up. Optional voice prompt (along with I.O extension board).

**Radio to telephone :** Two tables of 100 registered numbers accessible by selective five tone or straightforward DTMF dialing from the terminals, with or without DTMF regeneration; calling privileges can be individually controlled and monitored.

**Flashing management :** Timetables, number registration and all parameters can be customized. Programming can be done on site, through DTMF code or via a modem.

Without any public telephone lines on customer site, transmission link via GSM or satellite can be studied.

**Traffic management** : Whatever the activity of the system, the RS232 port provides an output showing ID user, date, time of day, call duration.

**Easy to adapt** : To formats such as ALCATEL (G+X, 2800 Hz leased line remote control) or Zetron. Interface substitution can be done without any terminal modification. Other formats on study, please contact us.

### **New functionalities : safety market**

Thanks to D.H.R. HERNING interface, a safety guard equipped with a walky talky can handle the telephone operator traffic (flashing), technical emergencies, access remote controls...

- **Positive security management** (radio link and walky talky valid handshaking tests) : 5 tone radio activation codes either scheduled or through an external automaton, fully programmable temporizations. Positive security or man down system manage its own alarm cycle : phone calls (even to a pager), time / day stamp print, remote dry contact, and voice prompt either on radio or telephone network.
- **Alarm transmission with optional board I.O.** : 8 inputs, 8 outputs, 1 analogic input and a four minutes speech synthesis allows : Selective call and voice message transmission, status changes detailed report on a line printer, an output command is generated upon unvalid acknowledge. Output command by 5 tone . **Speech synthesis** : 42 messages can be easily recorded with the software. Each message can be related to an alarm type (input data changes, 5 tone reception) or telephone voice prompt.

Our technical staff is very attentive to our customers demands in order to offer them the most customized software.

### **OTHER D.H.R. HERNING PRODUCTS :**

- **16 inputs RS232 extension board** :All status changes are reported under RS232 format. Many boards can be connected through an RS485 bus. Fully programmed and monitored by P.C. or by D.H.R. HERNING interface, increasing alarm management up to 40 possible inputs. Sub D connectors. Fixations and connectors optionally on EN profiled DIN rack.
- **R2H repeater**, built with two PRM80 SIMOCO mobiles, delivered with power supply and duplexer. Size : 400 x 315 x 150 mm – Weight : 10.5 Kg – Signaling : All five tone selective call standards, C.T.C.S.S. – Power : 10mW to 20W MTBF 125000 hrs – **French agreement** : R2H **80MHz** 940285PP0, R2H **150MHz** 940286PP0, R2H **450MHz** 940287PP0.  
Ordered along with D.H.R HERNING interface, special 150.00 € discount is granted.
- **GSM router** : Allows to send incoming public telephone calls to GSM network. Delivered with GSM modem, magnetic antenna, 12 V power supply and cable. Intercom connection possible. Remote dry contact activation – Public phone line or PABX possible connections.
- **European standard Hertel PIC Multi Board** : Built out of a PIC microcontroller. Handle radio alarm transmission. Equipped with clock, serial port, 5 tone encoder decoder, C.T.C.S.S. and speech synthesis. Expanded applications can be developed such as :
  - **Direct alarm contact transmission via 5 tone, speech synthesis.**
  - **Radio network control and monitoring via software equipment (safety, guard tour...)**
  - **Manage positive security for up to 8 terminals individually activated.**

Brochures, pictures, programmation software, upgrade, installation sketches, resellers list on our website <http://www.herning.fr/>.