

**Additional transmission channels  
for the train  
will be provided in the ELA line  
(train supervision lines)**

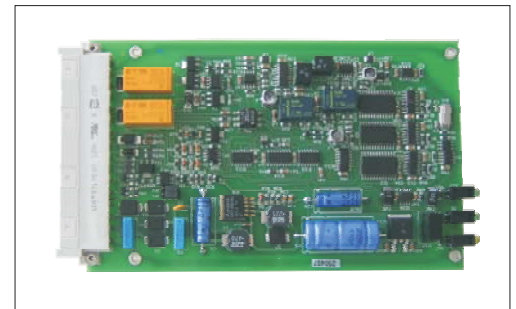


## ILM - IBIS LINE MODEM

### APPLICATION

The IBIS car bus information will be transmitted as a frequency multiplex signal through the shielded ELA (low frequency) two-wire line and via the coupling contacts of the ELA line.

No impairment of the ELA function.



### FEATURES

Simulation of the IBIS car bus interference, compliance with the IBIS time conditions, optionally configurable as assembly with IBIS master function or IBIS slave function.

Minimal disturbing influence of the transmitted ELA low-frequency signal (20 Hz 20 kHz).

The application is also possible when an additional frequency-modulated low frequency signal is transmitted by using the NFI AUDIO INTERFACE.

The IBIS train bus data traffic can be transmitted simplex.  
Without any setting or adjusting being required.

### TECHNICAL DATA

Modulation  
Transmission range  
(depending on the cable attenuation)  
Signal-to-noise ratio

Frequencymodulation  
several hundred meters

>60 dB each to the  
wanted low frequency signal  
wanted medium frequency signal  
Eurocard

OEM - modul

### ORDERING INFORMATION

ILM - IBIS Line Modem

delivery on request