FCC ID: EENDB1000

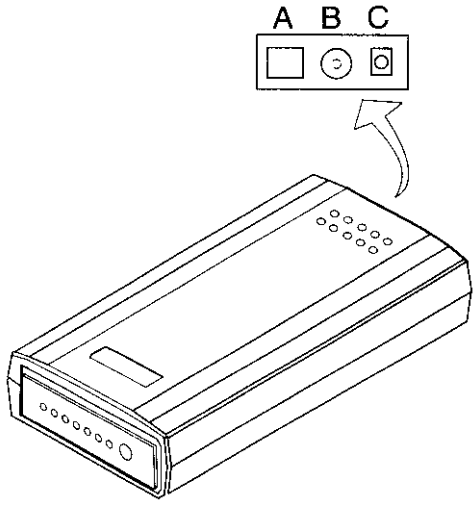
Data Broadcast Systems

EXHIBIT NEEDED FOR FCC CERTIFICATION
EUT: Data Broadcast Modem; Type: DB1000

Functional description

PHILIPS DATA BROADCAST DECODER DB1000SER

Connecting the Data Broadcast Decoder



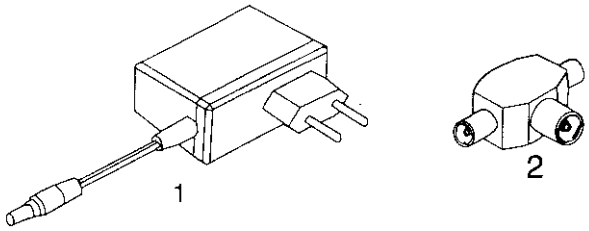
- Connect the aerial cable (4) from the antenna to the aerial socket on the back of the Data Broadcast Decoder (B).
  If you also want to connect the aerial signal to a TV, attach first the aerial cable to the antenna split (2).

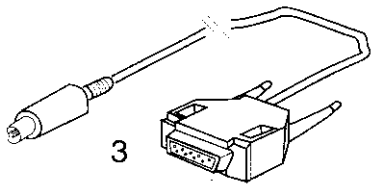
- Connect the serial connector (3) to the socket (A) on the back of the Data Broadcast Decoder, than attach the plug to the computer socket.
  Use the serial adapter (5) if your computer has 25 pin socket.

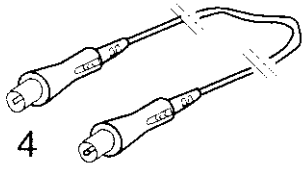
- Connect the mains power adapter (1) to the socket (C) on the back of the Data Broadcast Decoder.

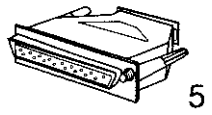
  Only use the original adapter and serial cable

- Install the software onto your computer and restart (Please consult the enclosed manual to install the software).

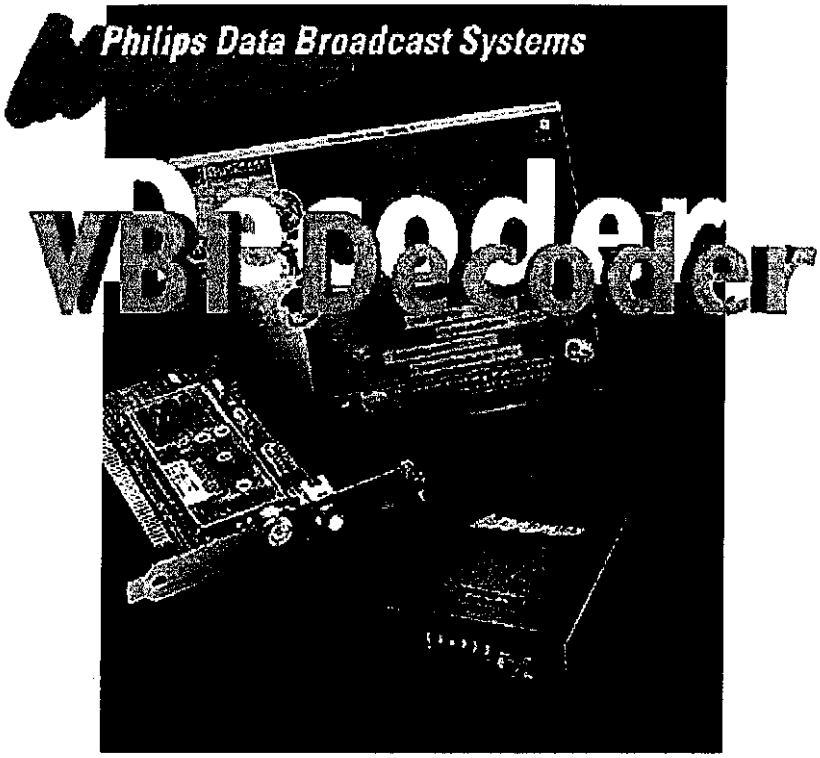








CE



Philips VBI databroadcast decoders

Philips' strengths in TV-technology, Teletext, and broadcasting are combined in the Philips data broadcast decoders. The result is a range of very reliable, robust, small, and attractive products, available as external (SER) and internal (ISA) data broadcast decoder.

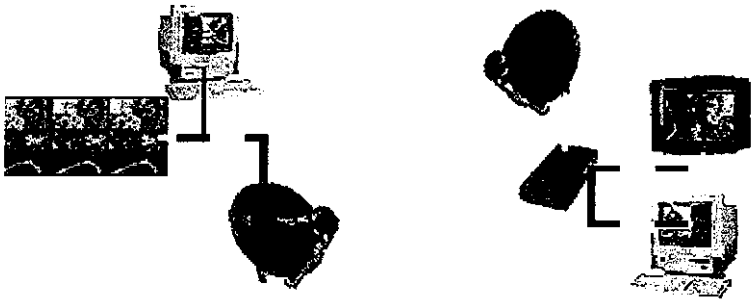
DB100 SER series	DB100 ISA series
Robust, portable, low power	Plug and play
Superior data reception	
Unique ID number (single address)	
Philips multimedia tuner	
Automatic channel scan and selection	
Philips digital data slicer	
DLL for Windows 95	
Specially shielded antenna cable	
PAL/WST or NTSC/NABTS datacast	
CE, FCC and TÜV certified, UL pending	

From Data Broadcast to Webcast ™

Electronic data distribution can be done in different ways. Commonly used are telephone modems using telephone networks. Data can also be distributed through broadcasts.

In the future, all TV-programmes will be broadcast as digital data over digital networks. In the mean time, the existing TV and radio broadcast networks are being used more and more to send digital content embedded in these familiar channels. Examples are RDS for road and traffic information sent together with regular radio programmes and Teletext, where digital content is sent in the VBI (Vertical Blanking Interval) of a normal TV-broadcast.

If you are a frequent Internet user you most probably have experienced the growing congestion of the traditional Internet via telephone and modem. Some say the WWW stands for the World Wide Wait. Therefore, service providers are looking for alternative ways to distribute the ever increasing amount of content to a growing customer base to get around the bottleneck of the telephone network.



The same technology as used in Teletext can be used to transmit anything that's digital. It's called VBI data broadcasting. For more than 10 years data broadcasting is being used for dedicated services and professional use.
An Example is real-time stock/shares information. Financial consultants and investors can take a subscription for receiving the data real-time. The only hardware they need is a decoder that is connected to a TV-antenna and to a PC. The decoder filters the digital information out of the TV-signal and relays it to the PC where it can then be stored, printed, edited, etc. The same decoder can also receive the normal Teletext data (where available), which can be shown and processed by the PC.

Key benefits

- Less expensive (if enough subscribers) than telephone
- Phone lines are kept free
- No per-minute additional costs
- Very robust, unique ID-number
- Simultaneous delivery
- Fast (up to 230 Kb/s in VBI and up to 4,5 Mb/s using full channel)

Philips, a global electronics company, has a long tradition of being a leader in television technology including 20 years of VBI-data broadcasting.
Philips wants to offer the better solution to distribute content to customers. Today, in many cases it's called Data Broadcast or Webcast™, using the analog TV infrastructure. Also for distribution of content over digital networks Philips is providing the better solution.