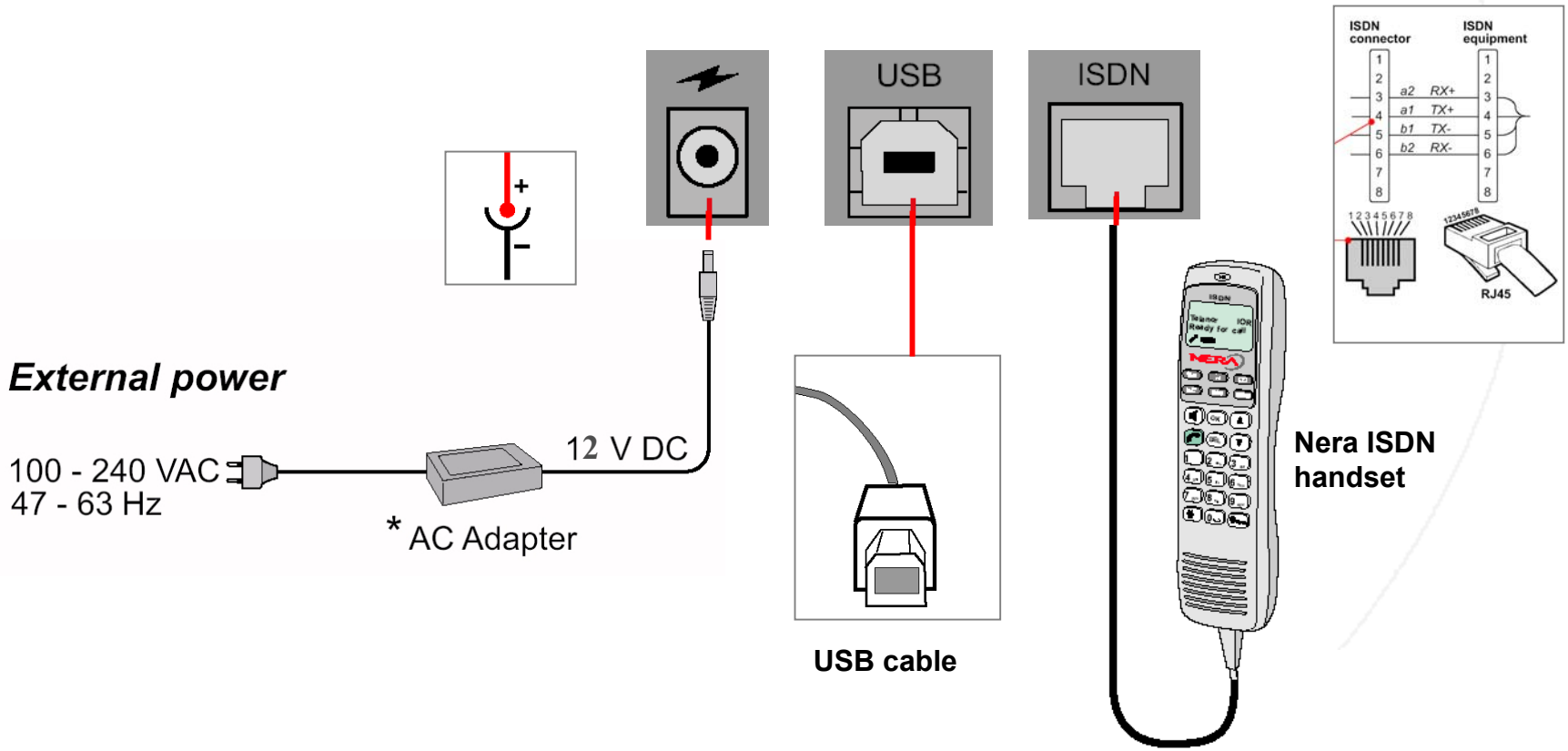
# The Nera BGAN Class 3 Terminal Design

# Communication Interfaces

**The Nera BGAN C3 appears to the user as a communication port providing access to the 3G UMTS communications network. The terminal will adhere to the UMTS PS/CS mode of operation. A user will access the BGAN services through one of the C3 user interfaces.**

- **Both constant (32, 64 Kbps streaming) and variable bit rates ( up to 384/240 Kbps) are supported. A number of applications are possible, such as telephony, Internet browsing, video conferencing, e-mail, IP-Crypto and file transfer.**
- **Three user interfaces are initially available (USB, Bluetooth and ISDN) provide flexibility in configuring the terminal for various user applications. All three interfaces may be connected simultaneously. (both wired and wireless)**
- **The Nera C3 terminal offers simultaneous voice and PS data connection.**
- **Several equipment configurations may be defined with the Nera BGAN C3.**
- **Ethernet to be available as a alternative the USB interface 2Q2006**

# Power and connectors



# Nera WP 1000 Connected to ISDN handset

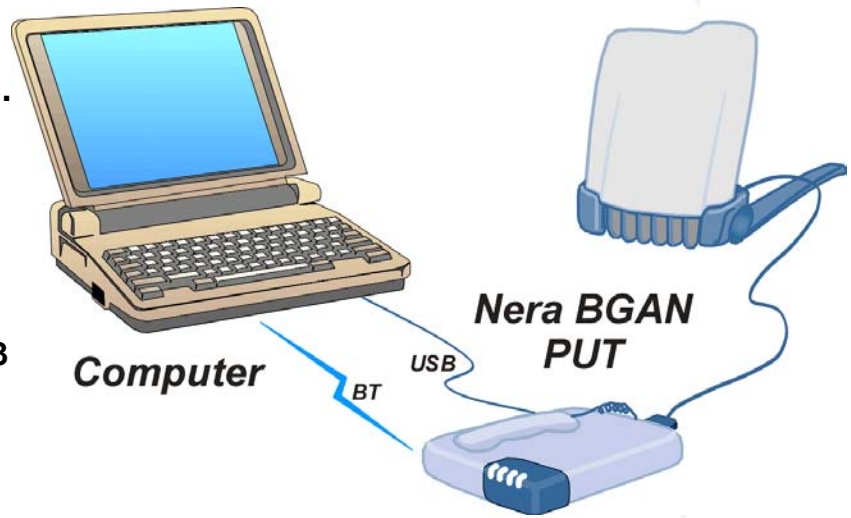
- ✓ **The C3 has a standard ISDN $S_0$ interface. In the basic configuration, this ISDN port supports telephony traffic only. The voice signals are AMBE-2 coded in the C3 prior to transmission via the satellite circuit.**

- ✓ **Nera is developing a ISDN handset that has a closer integration with the C3 providing access to the configuration MMI in the C3 including the implemented Supplementary Services and to the C3 Phone Book.**

- ✓ **An ordinary ISDN telephone may be connected to the C3 ISDN port. This will give the basic telephone call capability, but no MMI will be available. In this case the C3 must be configured in advance using a PC. Supplementary Services and Phone Book functions will only be available as supplied with the standard telephone set.**

# PC Connected to the Nera WP1000 Terminal

- **A PC can be connected to the C3 both wired and wireless**
- **Wireless via Bluetooth.**
- **Wired via USB. All PCs today include one or many USB master ports that will easily interface with the USB device port on the C3.**
- **Connecting a PC to the C3 provides great flexibility for the user. A full range of user functionality is available:**
    - **Full Common-MMI functionality.**
    - **Internet access at up to the maximum C3 PS data rates (up to 384 Kbps/240 Kbps)**
    - **Data transmission and reception.**
    - **SMS handling in both directions. Message authoring via standard editor.**
    - **Software download to C3**

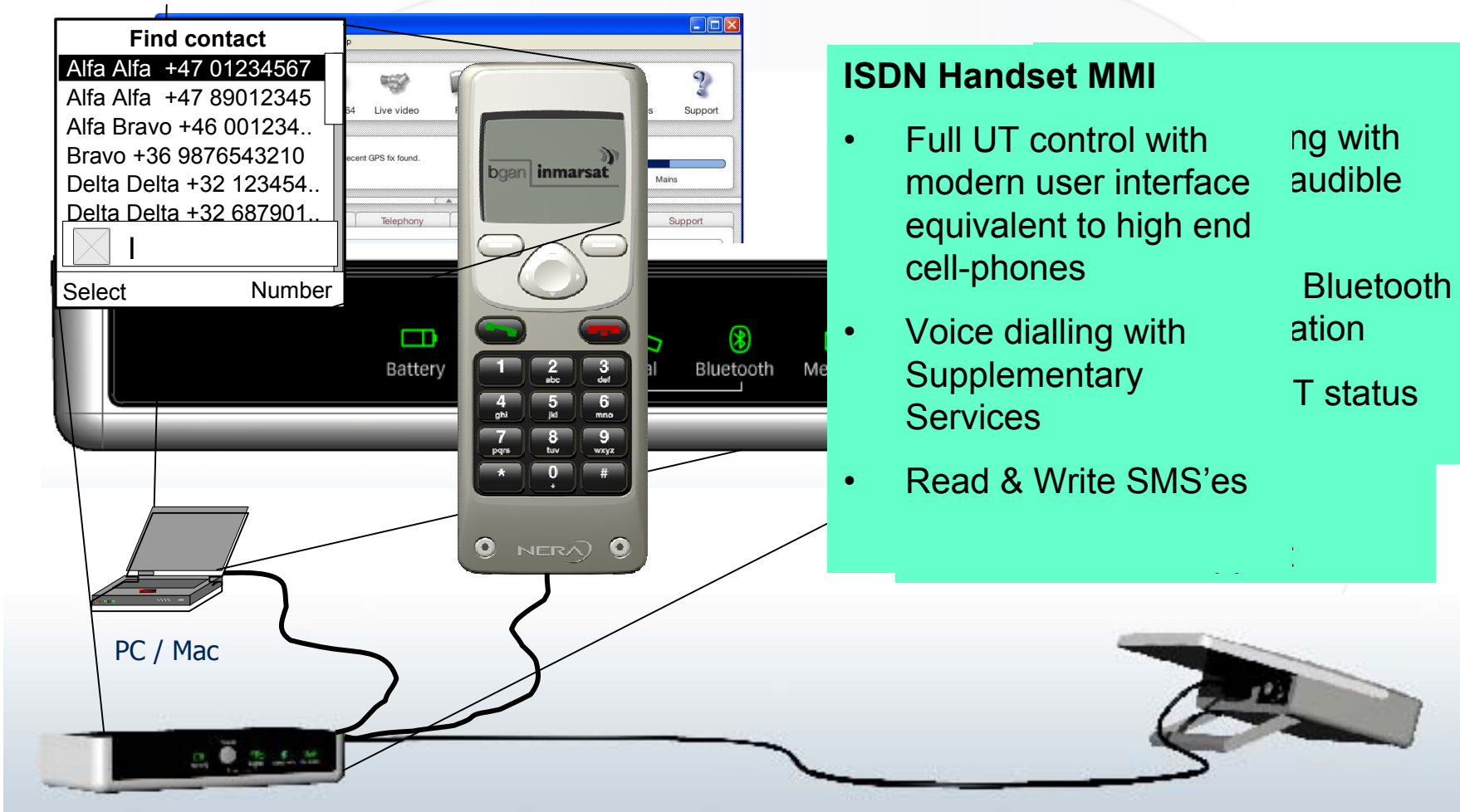


# USB connection: Dual Port function

Dual Port USB allows several programs to Operate at the same time via a single USB Port :

- *One "Channel" for data communication*
- *One "Channel" for Common-MMI*

# Nera BGAN MMI Concept
# Full Control - Always




## ISDN Handset MMI

- Full UT control with modern user interface equivalent to high end cell-phones
- Voice dialling with Supplementary Services
- Read & Write SMS'es

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