

Personal Digital Assistant for PDC/PHS Dual Mode Terminal “Browser Board”

DoCoMo launched a new personal digital assistant called Browser Board. Browser Board enables browsing of E-mail and Web through connection to a PDC cellular phone, Doccimo or PALDIO. This article describes the product overview of Browser Board.

Hidekuni Kawakami and Takehiro Soga

Introduction

Browser Board is a new small-size cellular information terminal that is made by adding such functionalities as Web browser and PHS interface etc, to the conventional Pocket Board. The design and development policies for this product and the product overview are explained as follows.

Design and Development Policies

Pocket Board has created a new market for mobile computing in the concept of cheap and easy-to-use mail terminal, supported by users, particularly by young ladies in their 20'

s. Browser Board was developed as a higher functional product than the Pocket Board while it follows the concept of simple mail terminal. It mounts not only E-mailer but also Web browser, and enables PHS data communication in addition to PDC (Personal Digital Cellular Telecommunication System). We aim at further spreading of mobile computing and at approaching to a new market by introducing a design also suitable for men. The appearance of Browser Board is shown in Picture 1.

Product Overview

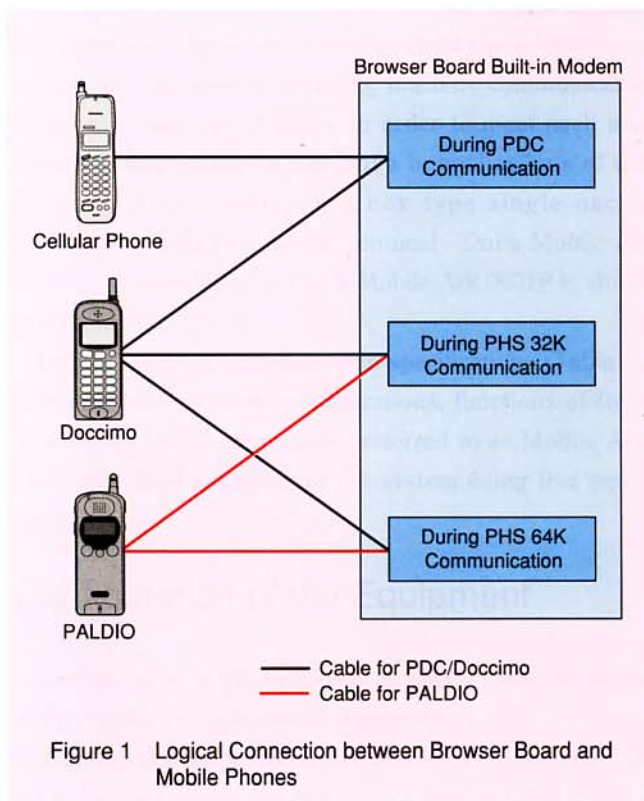
The specification is listed in Table 1. The features are described below.



Picture 1 Outside Appearance

Table 1 Specification of Browser Board

Communication Application	Internet mail, WWW browsing, 10 Yen mail, PALDIO Net Surfing
Personal Information Management (PIM) Application	Address note, Calendar, Freehand memo, World clock, Calculator
Applicable Network	Digital cellular mobile phone 9600bit/s PHS 64k/32kbit/s
Cable Installation	Integrated cable base cabinet installation type Cable replace available (for PDC/Doccimo and for PALDIO)
Display	Monochrome 16 gradations, Dot numbers : 320×240 dot matrix
Memory	6MB (User area 3.4MB)
External Interface	Infrared rays (ASK, IrDA)
Power Supply	Size AA alkali battery only×2 Display : 60 hours PDC continuous communication : 13 hours PHS continuous communication : 7 hours
Size	160mm (W)×90mm (D)×28mm (H)
Weight	305g (including 2 batteries)



- ① Supports three communication systems, PDC 9.6kbit/s, PHS 64/32kbit/s processed by software modems.
- ② Enables data communication using 3 kinds of mobile phones : Doccimo, cellular phone and PHS with different terminal interfaces.
- ③ Two types of cables for cellular phone/Doccimo and for

PALDIO are provided. The cable can be installed in back of the body, and the cable can be replaced easily.

- ④ Enables to receive "mopera" services without setup, with simple operation.
- ⑤ Sophisticated silver/blue design suitable not only for women but also for men and for business purposes.
- ⑥ Besides mailer and browser, Personal Information Management (PIM) function is also mounted.

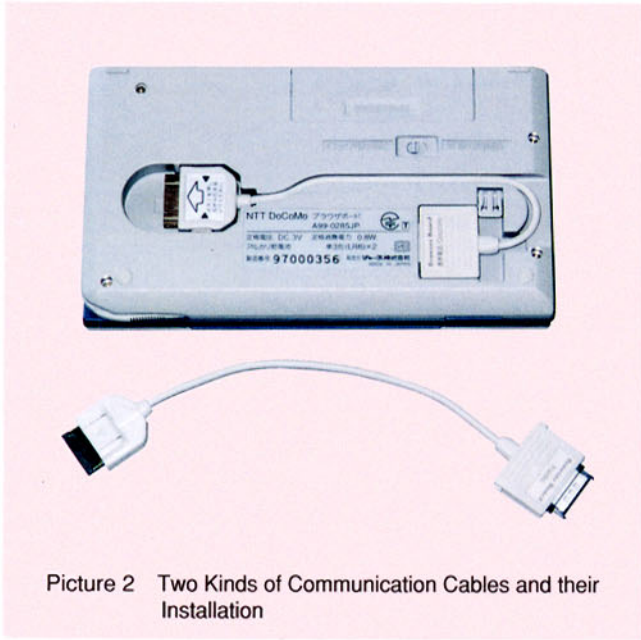
Connecting with Doccimo

With Browser Board, PDC 9.6kbit/s and 64/32k PIAFS communications will be possible by connecting with Doccimo and the cable for cellular phone/Doccimo. One of the specific examples is that data communication specified by Browser Board is possible regardless of standby mode in Doccimo, if you set the card "Auto". Connection method of mobile phones and two cables is given in Figure 1.

Connecting with Mobile Phones, and Installing Cables

Picture 2 shows two kinds of communication cables and their installation structures.

Two types of connection cables are provided for cellular phone/Doccimo and for PALDIO in order to handle three types of mobile phones of Doccimo, cellular phone and PALDIO. For convenience, cables with two different shape



Picture 2 Two Kinds of Communication Cables and their Installation

connectors can be replaced very easily. They are installed in back of the body and fixed firmly so as not to be dropped off.

Conclusion

In mobile computing market, new needs and technologies for electronic commerce and contents delivery etc, are expected in the near future other than E-mail and Web browsing. We will keep pursuing new possibility with flexible ideas without sticking to the concept that the mobile computing equals pocket mail terminals for mobile phones.