

ABSTRACT

The present invention relates to a digital audio/video data processing unit and an access control method to this data. The processing unit (UT) of audio/video digital data encrypted with control-words (CW) coming from control messages (ECM) includes a deciphering unit (DMX) of the audio/video data (DT), a decompression unit (MPEG), an input/output interface of the processed audio/video data and communication means towards a security module (SM). The deciphering (DMX) and decompression (MPEG) units comprise respectively an encryption unit (EC) and a decryption unit (DC) each having at least one personal key (Kec, Kdc) and a common encryption key (Ki). It is characterized in that it comprises secured transmission means of the common key (Ki) and of the control word (CW) extracted from a control message (ECM) between the security module (SM), the deciphering unit (DMX) and the encryption unit (EC) using the personal key (Kec) of the encryption unit (EC). The deciphering by the deciphering unit (DMX) of the audio/video data (DT) with the control word (CW) and the re-encryption by the encryption unit (EC) of said deciphered data with the common key (Ki) being possible only after a successful verification of the control word (CW) and the common key (Ki). After temporary storage, the re-encrypted audio/video data (DT) cannot be decrypted by the decryption unit (DC) unless the common key (Ki) has been positively verified by the security module (SM) by means of a random number (AL) generated by the decryption unit (DC).