

UniOP SSFDC Error Codes

This Technical Note contains the description of the error codes reported by the UniOP MMI products when the panel cannot go into Operation Mode for any reason. These error codes are valid only for products using the SSFDC memory card (Firmware type 38 and later).

Contents

1. Introduction	1
2. Displaying SSFDC Error Codes.....	1
3. List of Error Codes	2

1. Introduction

The Bootstrap module of UniOP firmware type 38, version 4.22 or later includes a diagnostic system very useful to investigate the reasons for which UniOP stays in Operation Mode without apparent reasons.

Note: *This diagnostic service is available only in products with firmware type 38 and SSFDC memory card. Examples are the ExT-VGA and MKDx-VGA models.*

2. Displaying SSFDC Error Codes

During the system start-up phase, the UniOP firmware checks the contents of the flash memory to verify its integrity. When something goes wrong in this phase and a valid application has not been recognized, UniOP cannot start Operation Mode and remains in Configuration Mode. Once the panel has unexpectedly entered the Configuration Mode, the corresponding error code can be recalled. The error code will be displayed in the 3rd row of the display, below the text “Configuration Mode”. To display the error code press the ENTER key for more than 2 seconds.

3. List of Error Codes

There are several reasons because a panel does not enter, as it is expected, the normal Operation Mode. The following table reassumes all the error codes.

Error Code	Description	Causes
0001	The SSFDC header is missing	The format process of the SSFDC card was not completed successfully. Card should be re-formatted by downloading again the project or by using the Format Utility using the SSFDC Programmer software.
0002	Graphic file in the project is missing	The graphic information in the downloaded file is missing. The option "Do not download graphics" should not be used the first time a project is downloaded.
0004	Project file is missing	The project information in the downloaded file is missing. The option "Download Protocol Only" should not be used in Designer.
0008	Application file is missing	The communication protocol in the downloaded file is missing. The project should be completely downloaded again or the option "Download Only Protocol" should be used.
0010	Project and graphic file do not match; they have different time reference	The last download was probably done with the option "Do not download graphics" activated, but the graphic information have also changed in the Designer project. The file should be completely downloaded again. The hardware /software consistency should also be checked.
0020	SSFDC card is not present	The memory card is not present or it is not correctly inserted.
0040	The downloaded project file supports different hardware type	The project is the memory requires different hardware.
0100	The firmware is missing in the panel	Only the Bootstrap software module is loaded in UniOP. The firmware is either missing or it is damaged.
0200	Communication session is in progress	Attempting to go in Operation Mode during a project file download. Happens if the ENTER key is pressed during the download process.
0400	Bad checksum in the project	The global consistency checks of the downloaded project failed. The project should be downloaded again.
0800	Wrong application type or it does not match with the project file	The protocol present in the memory card is not consistent with the downloaded project. Could happen if a project is downloaded with the option "Download Project Only" activated without erasing the previous protocol still present in the memory.

Error Code	Description	Causes
1000	MIPS FW code (Graphic Engine) is missing	MIPS part of FW code on card is missing, corrupted, or not compatible with 8051 FW. This error is possible only on boards using MIPS (T2000 or later).

Table 1 – SSFDC Error Codes Description

All the error codes in the table are in hexadecimal format and if more that one condition is verified the corresponding code is the sum of the single codes.