



UPGRADE of GEMINI 2 FIRMWARE for MOVA6

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Product: *Gemini Mk2*
Modifications Req: *No*
Retrospective Action Req : *No*
Priority of Change: *Information only*

- ✓ Introduction
- ✓ Scope
- ✓ Procedure
- ✓ Related documents

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Introduction

The availability of TRL's MOVA6 firmware has resulted in the updating of the Gemini2 Firmware from GEMINI 12686 issue 4 to **GEMINI 12687 issue 2**.

Scope

MOVA 6 is now available with the Gemini2 Unit.

All Gemini2 Units delivered from the factory will now have GEMINI 12687-2 firmware loaded.

All Gemini2 Units that are returned for repair will be loaded with the latest issue of Firmware (currently GEMINI 12687-2) before leaving the repair centre. For sites requiring MOVA 5 or MOVA 4 units returned to the Field will need to be 'downgraded' to the appropriate MOVA version.

Below is an overview of the available Gemini Firmware and how they relate to MOVA versions and hardware platforms

Firmware Version Summary

- Firmware 12683 provides MOVA 4 and runs on Gemini-1 or Gemini-2 hardware.
- Firmware 12684 provides MOVA 5 and runs on Gemini-1 or Gemini-2 hardware.
- Firmware 12686 provides MOVA 5 (single or dual stream) and runs on Gemini-2 hardware.
- Firmware 12687 provides MOVA 6 (single or dual stream) and runs on Gemini-2 hardware.

Procedure

List of Changes for MOVA 6 (MOVA Kernel version is 6.0.3):

- Added pedestrian priority facility which can be customised using the PEDMAX variable array.
IMPORTANT: The new MOVA Setup for Windows program from TRL should be used where pedestrian facilities are being configured. The DOS-based MOVA Setup program configured PEDMAX in seconds, whereas it is used in MOVA in 0.1 second units.
- Added saturation flow estimation module with the intent that once it has been optimised it could be used as part of the control system.
- Added the ability to display detector activation time stamps for the development of a cruise speed estimation algorithm.
- Fixed an issue where MOVA would not allow a remote download within 10 minutes of the previous download regardless of any difference in the date between downloads.
- MOVA no longer drops force bits on low flow conditions (the same fix is also available for MOVA 5 in firmware 12686-4 or later).

Other additional changes in this issue firmware:-

- This release addresses a heavy network traffic problem identified at a number of UTMC OTU sites (the same fix is also available in firmware 12686-4).
- Corrected ppp echo request handling (only applies to GPRS communications)
- Vehicle Classifier Conditioning Items are accessible from RMS special conditioning
- The reporting of faults and clearances from Graphos signs has been updated
- Improved problem reporting for IP address setting (IPR command)
- Multiple OMCU Car Park Application now supported
- UTMC OTU licence code is no longer required
- Correction to IPM handset command
- Added Sentinel controller monitoring
- Add MPC handset command to power cycle modem at 3:50AM and force GSM modems to recover network signal.

The new Gemini2 firmware (e.g. 12687-2) can be downloaded from www.siemens.co.uk/traffic

NOTES -

- 1) The delivery of new Gemini Units from the factory will have the label ' **GEMINI 12687-2** ' placed over the revision box of the Gemini CPU card.
- 2) When Gemini2 Units are returned to the factory for repair, they will be updated to the latest issue of firmware.
- 3) If it is required to run MOVA 5 Firmware, 12686 will be needed to be loaded into the Gemini CPU
- 4) The Gemini Handbook has been updated to identify the installation differences between MOVA5 and MOVA6.

Related documents

Gemini2 Handbook 667/HB/32600/000

Approved by: Keith Manston