

## Change Log Firmware HF-Read-Write-Heads

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List of affected Devices:

### **M18 Read-Write-Head**

7030001	TB-M18-H1147
7030224	TB-EM18WD-H1147
7030381	TB-EM18WD-H1147-EX
100036841	TB-EM18WD-H1147-EX/C53
7030729	TB-M18-H1147/C53
7030002	TN-M18-H1147
7030223	TN-EM18WD-H1147
7030382	TN-EM18WD-H1147-EX
100036840	TN-EM18WD-H1147-EX/C53
7030728	TN-M18-H1147/C53

### **M30 Read-Write-Head**

7030003	TB-M30-H1147
7030221	TB-EM30WD-H1147
7030385	TB-EM30WD-H1147-EX
100036843	TB-EM30WD-H1147-EX/C53
7030731	TB-M30-H1147/C53
7030004	TN-M30-H1147
7030222	TN-EM30WD-H1147
7030386	TN-EM30WD-H1147-EX
100036842	TN-EM30WD-H1147-EX/C53
7030730	TN-M30-H1147/C53

### **CK40 Read-Write-Head**

7030006	TN-CK40-H1147
7030236	HT-IDENT-H1147
7030732	TN-CK40-H1147/C53

### **Q14 Read-Write-Head**

7030235	TN-Q14-0.15-RS4.47T
100003964	TN-Q14-0.55
7030779	TN-Q14-0.15-RS4.47T/C53

### **Q08 Read-Write-Head**

7030553	TB-Q08-0.15-RS4.47T
100004092	TB-Q08-0.22-RS4.47T
7030778	TB-Q08-0.15-RS4.47T/C53

**Q80 Read-Write-Head**

7030007	TN-Q80-H1147
7030302	TN-Q80-H1147-EX
100010648	TN-Q80-H1147/C53
7030230	TNLR-Q80-H1147
7030303	TNLR-Q80-H1147-EX
100010649	TNLR-Q80-H1147/C53
7030418	TNSLR-Q80WD-H1147
100001312	TNSLR-Q80WD-H1147/C53

**Q42 Read-Write-Head**

7030424	TNSLR-Q42TWD-H1147
7030733	TNSLR-Q42TWD-H1147/C53

**Q80L400 Read-Write-Head**

7030204	TNLR-Q80L400-H1147
7030234	TNLR-Q80L400-H1147L

**Q350 Read-Write-Head**

7030454	TNSLR-Q350-H1147
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**R42 Read-Write-Head**

100020166	TN-R42TC-Ex
100020167	TN-R42TC-Ex/C53
100028462	TN-R42TC-Ex/C65

## 1v82

- Combined the different source code data

## 1v85

- Implemented auto tuning and changed the triggers:
  - o At power-up
  - o When the „TuneTransmitter“ command is received
  - o If auto tuning is activated, for every command that is send
- Autotuning can be permanently activated through storing the command in EEPROM with the „get extended version“ command
- Implemented password function for EM4233SLIC
- Wait time corrected for writing operations with option flag = 1 for TI and Infineon
- Show the revision in the answer to the „get extended version“ command

## 1v86

- Optimized antenna tuning

## 1v90

- Implemented report mode
- Implemented bus mode
- Implemented diagnosis mode
- Implemented automatic mode (manufacturer codes 0x04, 0x05, 0x07 and 0x08)
- For the Fujitsu MB89R118 the special command 0xa5 (read multiple blocks unlimited) is used in parameter mode

## 1v91

- Updated automatic mode for additional TAG types

## 1v93

- Correction of lock block timing for SLIX,SLIX-S and SLIX-L which cause an Time out.
- Support of Continuous Mode in HF Bus-Modus
- Bit 6 in the response is set correctly again, when the R / W head is in multitag mode.

## 1v96

- The carrier is no longer switched off in bus mode if the R / W heads are not active.
- Fixed: Internal timeout when writing more than 32 data bytes

## 1v97

- Added password support for SLIX2.
- Bugfix when stopping the continuous bus mode

- The RS-485 transceiver is switched to transmit during initialization.
- Correction via timer control when receiving TAG answer.
- New feature: Continuous reading for Continuous Mode HF with start address = 3
- Bus mode now also works with only one r/w head in the bus
- The new TAG type ST25DVxxK was added with the functions GSI, Inventory, Read and Write. Currently only in parameter mode.

## 1v98

- ST25DV04K read Tag Block >'1B' Bugfix xv97
- Changing Baudrate from 115,2kB results in communication breakdown
- Bugfix xv97 Increased (doubled) write times for >1 block writes for NPX SLI(X) and SLI(X)2 tags.
- TI Plus Tag in Automatic Mode (add support for type "81h")

## 1v99

- AFI-Handling
- Error telegram after watchdog reset & resulting BUS mode bug
- Implementation (HW detection byte) in BL-Ident command
- Bugfix Get Multiple Block Protection Status Command 0xB8 ADB