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Software Update History

Version 2

| Cores Ver. | FW. | Drv. | DLL. | |
|------------|--------------|-------------|-------------|--|
| 240726_0 | 2.136 | 2.10 | 2.12 | - : Servo On Operation Enable Timeout (0.5s→3s) - : (1 CMD/FEED) |
| 240711_1 | 2.135 | 2.10 | 2.11 | - : Arc |
| 240705_1 | 2.132 | 2.10 | 2.11 | - : LM Arc OverrideByRatio |
| 240703_0 | 2.131 | 2.10 | 2.11 | - : ecmlxCfg_SetSpeedPatt_time ErrorCodeAt CCCC |
| 240626_0 | 2.131 | 2.10 | 2.10 | - : LM Arc OP - : ELMO Drive |
| 240621_0 | 2.129 | 2.10 | 2.10 | - Override |
| 240612_0 | 2.128 | 2.10 | 2.10 | - : OP Firmware Down |
| 240610_0 | 2.127 | 2.10 | 2.10 | - : MultiPacket (1500byte Packet) Packet (Config Packet) |
| 240605_1 | 2.126 | 2.10 | 2.10 | - : SCAN (DISCONNECT SafeOP , DISCONNECT) |
| 240528_1 | 2.122 | 2.10 | 2.10 | - : DISCONNECT Slave |
| 240528_0 | 2.121 | 2.10 | 2.10 | - : DISCONNECT, CONNECT - : Physical Address 0 |
| 240523_0 | 2.120 | 2.10 | 2.10 | - : UnitDist |
| 240521_0 | 2.119 | 2.10 | 2.10 | - : Core Interface - : BitSequence RunState (240517_0) |
| 240517_0 | 2.118 | 2.10 | 2.10 | - : Sweep Override Stop - : SmartMoveTo() Stop 가 - eaERR_MOT_SEQ_SKIPPED_BACKWARD(-21061) - : , DSP - : Override(Smart[V]Move[To]), Stop - : GetMotState - SubErrCode 가 - ecERR_MOT_CTRL_ALARM(-1011) - ecERR_MOT_ETC(-1012) - : ODM IN_WAIT Status 가 (SmartMove, SweepOverride, InTime) - : 가 (Move, Stop, Override, SpeedPattern, ServoOn) |
| 240510_0 | 2.117 | 2.7 | 2.9.2 | - : FW 가 (Home, SmartMove, StopCompt) |
| 240503_0 | 2.116 | 2.7 | 2.9.2 | - : OverrideSpd (-21060) |

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|------------|--------------|--------------|----------------|---|
| 240430_0 | 2.115 | 2.7 | 2.9.2 | - : State Machine fw down - : All Disconnect |
| 240423_1 | 2.113 | 2.7 | 2.9.2 | - : Init→PreOP |
| 240415_0 | 2.112 | 2.7 | 2.9.2 | - : InPDOSkipCount 가 - : Init→PreOP 가 - : C# |
| 240403_2 | 2.110 | 2.7 | 2.9.2 | - : 가 (OP, Mst, AxisMode) |
| 240402_1 | 2.109 | 2.7 | 2.9.2 | - : NikkiDenso OP |
| 240402_0 | 2.108 | 2.7 | 2.9.1 | - : Compiler VC22 to VC10 (Shared Memory) |
| 240315_0 | 2.108 | 2.7 | 2.9 | - : ODM (SmartMoveToStart) - : UnitSpeed - : ecERR_DEV_BOOT_TIMEOUT(-8) - : ecERR_DATASYNC_NOT_COMPT(-13) 가 |
| 240223_0 | 2.107 | 2.7 | 2.8 | - : 5003 Profile SCAN |
| 240222_0 | 2.106 | 2.7 | 2.8 | - : SCAN |
| 240221_0 | 2.105 | 2.7 | 2.8 | - : DLL (VC10→VC22) - : Reg134 PreOP - : 5003 Profile Slave 가 |
| 240215_2 | 2.104 | 2.6.5 | 2.7 | - : Slot Scan |
| 240207_0 | 2.100 | 2.6.5 | 2.7 | - : Ring |
| 240201_0 | 2.99 | 2.6.5 | 2.6.7 | - : SCAN-Download (FW Down) |
| 240130_0 | 2.98 | 2.6.5 | 2.6.7 | - : Reg134ID Read Timeout - : Slot SCAN (ComilDE v1.11) - : Ring , LINK - |
| 240126_0 | 2.97 | 2.6.5 | 2.6.7 | - : (SxStop) 가 가 - : OP Init |
| 240123_0 | 2.96 | 2.6.5 | 2.6.7 | - Revert: MultiPacket (231102_0) |
| 240119_0 | 2.95 | 2.6.5 | 2.6.7 | - : Sweep Override State , 가 |
| 240116_0 | 2.94 | 2.6.5 | 2.6.7 | - : Reg134ID Read |
| 231218_0 | 2.94 | 2.6.5 | 2.6.6 | - : DLL Load Exception - : Driver (2.6.4.0) |
| 231102_0 | 2.94 | 2.6.4.0 | 2.6.5.0 | - : MultiPacket |
| 231026_0 | 2.93 | 2.6.4.0 | 2.6.5.0 | - : BitSequence fix |
| 231025_0 | 2.92 | 2.6.4.0 | 2.6.5.0 | - : OPDOSync 가 - : BitSequence 가 - : Master OP 가 |
| 230927_0 | 2.91 | 2.6.4.0 | 2.6.4.0 | - : Sweep Override Emul 가 () - : Sweep Override Status 가, , Unmap 가 () - : SmartMove 가 Interlock 가 |
| 230920_0 | 2.90 | 2.6.4.0 | 2.6.3.0 | - : RawInPDO 가 - : Master Board가 LoadDLL/UnloadDLL App Crash |

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| 230914_0 | 2.89 | 2.6.4.0 | 2.6.2.0 | - : ReleaseNote 가 (md) - : (가) - : ODM (SmartVMoveStart 가) |
| 230822_1 | 2.87 | 2.6.4.0 | 2.6.1.0 | - : 230718_0 Raw[In/Out] PDO |
| 230818_1 | 2.86 | 2.6.4.0 | 2.6.0.0 | - : BSOD - : Sweep Override (ODM) Sampling Data - : 230713_0 PCI BSOD |
| 230718_0 | 2.84 | 2.6.1.0 | 2.6.0.0 | - : Profile Torque Mode 가 - : Raw[In/Out] PDO |
| 230713_0 | 2.83 | 2.6.0.0 | 2.5.3.0 | - : SBC(DMA), PCIEx, PCI |
| 230523_1 | 2.83 | 2.5.1.0 | 2.5.3.0 | - : ecdiGetLogicAddr 가 |
| 230523_0 | 2.83 | 2.5.1.0 | 2.5.3.0 | - : whql driver initial release |
| 230519_0 | 2.83 | 2.5.0.0 | 2.5.3.0 | - : SDO FW Down (221208_0 AbortCode) - : ODM Smart[V]Move 가 |
| 230516_0 | 2.82 | 2.5.0.0 | 2.5.2.0 | - : LS IO OP - : Weidmuller Slot OP |
| 230508_0 | 2.82 | 2.5.0.0 | 2.5.2.0 | - : ecdoPutOne_L() 가 Exception |
| 230503_0 | 2.82 | 2.5.0.0 | 2.5.1.0 | - : rdp (s-curve extstop) |
| 230410_0 | 2.81 | 2.5.0.0 | 2.5.1.0 | - : C# - : Slv_SdoInfo() - : ResetEsc() - : Servo Home Mode PDO "Mod of Operation" () - : LmOverrideRatio() 0 Ratio (Invalid Parameter) - : Delay () - : SD Disable Latch 가 |
| 230406_0 | 2.80 | 2.5.0.0 | 2.5.0.0 | - : Data |
| 230313_0 | 2.78 | 2.5.0.0 | 2.5.0.0 | - : DLL v2.4.12.0 Lx554 Load 가 - : NetID interlock - : |
| 230307_0 | 2.77 | 2.4.3.0 | 2.4.12.0 | - : IDE LastConfig Auto Load - : RingCnt Multiturn Home ComptPosition - : ODM (LmOverrideRatio) - : Virtual Axis 가 - : Alarm/Warning FW PDO 가 |
| 230223_0 | 2.76 | 2.4.3.0 | 2.4.12.0 | - DLL CPU |
| 230217_0 | 2.76 | 2.4.3.0 | 2.4.11.0 | - ODM (Stop Override 가) |
| 230207_0 | 2.75 | 2.4.3.0 | 2.4.9.0 | - Master Slave Slave 가 |
| 230206_0 | 2.74 | 2.4.3.0 | 2.4.8.0 | - OverrideMoveTo() - Master Slave Slave |

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| 230201_0 | 2.73 | 2.4.3.0 | 2.4.8.0 | - ODM (ODM_OverrideSpeedByRatio) |
| 230131_0 | 2.72 | 2.4.3.0 | 2.4.8.0 | - ODM (ODM_OverrideSpeedByRatio) |
| 230127_0 | 2.71 | 2.4.3.0 | 2.4.8.0 | - ODM (ODM_SmartVMove) DLL export |
| 230116_0 | 2.71 | 2.4.3.0 | 2.4.6.0 | - Header |
| 230115_0 | 2.71 | 2.4.3.0 | 2.4.6.0 | - Standalone ODM (SO) |
| 230109_0 | 2.70 | 2.4.3.0 | 2.4.5.0 | - IX FW→DLL |
| 230106_0 | 2.70 | 2.4.3.0 | 2.4.4.0 | - Delay - IX MasterAxisFix 가 |
| 221208_0 | 2.68 | 2.4.3.0 | 2.4.3.0 | - Standalone - UnitDist, UnitSpeed - SetOutPdo Crash - Header 가 - CoeSDO Abord Code 가 - LostFrame 가 - GetInfo Exception - LmSt_GetRemStepCount() FW (DLL+FW) - HouseKeep Auto Download NetIdx→NetID - SyncFactor1 (LS-iX7NH) - NetID (NetIdx→NetID) |
| 221117_0 | 2.67 | 2.4.2.0 | 2.4.0.0 | - OpenDevice (-12) - GetVerInfo() False |
| 221027_0 | 2.67 | 2.4.1.0 | 2.4.0.0 | - SxMot_Stop TouchProbe |
| 221024_2 | 2.65 | 2.4.1.0 | 2.4.0.0 | - |
| 221024_0 | 2.63 | 2.4.1.0 | 2.4.0.0 | - OverrideSpeed 가 |
| 220926_0 | 2.62 | 2.4.1.0 | 2.4.0.0 | - Scan-Download BSOD 가 |
| 220920_0 | 2.62 | 2.4.0.0 | 2.4.0.0 | - DC-Sync Config (DC-Factor) |
| 220907_1 | 2.60 | 2.4.0.0 | 2.4.0.0 | - DC-Sync Config (Sync0, 1 Config) |
| 220826_1 | 2.45 | 2.3.1.0 | 2.3.6.0 | - OP (LinMot) |
| - | - | - | - | ComiIDE v1.9 Config가 (OP 가) |
| 220818_0 | 2.44 | 2.3.1.0 | 2.3.5.0 | - OP (LS-iX7) |
| 220805_0 | 2.43 | 2.3.1.0 | 2.3.5.0 | - LX553 가 - ecdiLtc_IsAddedChannel() Stack - ecNet_IsBootCompt() NetID |

Version 3

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|------------|------------|--------------|--------------|---------------------------------|
| 240711_0 | 3.5 | 3.0.1 | 3.0.3 | - : OverrideSpd FW |
| 240116_1 | 3.0 | 3.0 | 3.0.3 | - : Reg134ID Read |
| 231214_0 | 3.0 | 3.0 | 3.0.2 | - : 231114_0 IN_WAIT |
| 231129_0 | 3.0 | 3.0 | 3.0.1 | - : DLL Load Exception |
| 231114_0 | 3.0 | 3.0 | 3.0 | - : (Config) - : LX553 PDO |

| Cores Ver. | FW. | Drv. | DLL. | | |
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| - | - | - | - | Config | 1.10.5 ComilDE |
| 231102_0 | 2.94 | 2.6.4.0 | 2.6.5.0 | - | : MultiPacket |

| | | | | | |
|-------------|----------------|----------------|--|--------------------------------|-----------|
| 2.42 | 2.3.1.0 | 2.3.4.0 | - | Slave | FW Down |
| | | | - | Home | |
| 2.41 | 2.3.1.0 | 2.3.3.0 | - | 121 Home Mode EZ | Low Spd → |
| 2.39 | 2.3.1.0 | 2.3.3.0 | - | TimeStrict | IxMotion |
| 2.38 | 2.3.1.0 | 2.3.3.0 | - | Servo Driver | |
| 2.37 | 2.3.1.0 | 2.3.1.0 | - | All Disconnect | |
| | | | - | AI State | 가 |
| 2.36 | 2.3.1.0 | 2.3.1.0 | - | Configuration Physical Address | |
| 2.35 | 2.3.0.0 | 2.3.0.0 | SxStop | TimeStrict | 가 |
| 2.34 | 2.3.0.0 | 2.3.0.0 | EEPROM Read / Write | | |
| | | | Reg134 | | |
| | | | AIStatus | | |
| | | | AIState Read failed timeout | | |
| 2.32 | 2.3.0.0 | 2.3.0.0 | VMoveStart | TimeStrict | 가 |
| 2.31 | 2.3.0.0 | 2.3.0.0 | OutPDO Sync | 가 (PDO | Object) |
| 2.29 | 2.1.0.2 | 2.2.0.1 | SDO Read/Write | Timeout | |
| 2.27 | 2.1.0.2 | 2.2.0.1 | PDO | 가 | |
| 2.27 | 2.1.0.2 | 2.1.3.0 | 4byte Data | EEPROM Write | |
| | | | Byte Data | EEPROM Write | 가 |
| 2.24 | 2.1.0.2 | 2.1.1.1 | NetID | (: NetIndex) | |
| 2.24 | 2.1.0.0 | 2.1.1.0 | Master/Slave Disconnect Bug (Disconnect) | | |
| | | | ecaiGetChanVal_I_L() 가 | | |
| 2.23 | 2.1.0.0 | 2.1.0.4 | DoGetMulti, DiGetMulti 가 (FW 2.11) | | |
| | | | ListMotion Stop Bug (가) | | |
| 2.21 | 2.0.0.3 | 2.0.1.10 | HomeMode | (1 114) | |
| 2.19 | 2.0.0.3 | 2.0.1.9 | Firmware Reset 가 | | |
| | | | Arc | | |
| 2.15 | 2.0.0.3 | 2.0.1.7 | DC Debug | 가 | |
| | | | ESC Reset | 가 | |
| 2.13 | 2.0.0.3 | 2.0.1.5 | MasterDCOffset | | |
| | | | OutPDO Write () | | |
| 2.12 | 2.0.0.3 | 2.0.1.4 | LmRatio , | 가 | |
| | | | opdrop | | |
| 2.11 | 2.0.0.3 | 2.0.1.3 | Dio Multi | 32 | |
| | | | 8 | Multi | |

| | | | |
|-------------|----------------|----------------|--|
| 2.09 | 2.0.0.3 | 2.0.1.2 | S-Curve |
| | | | Helical Ix Override |
| | | | Helical ListMotion |
| 2.08 | 2.0.0.3 | 2.0.1.2 | EL EL Stop 27.4 |
| | | | HomeOffset Unitdistance |
| | | | S-Curve |
| | | | ListMotion Stop |
| 2.07 | 2.0.0.3 | 2.0.1.2 | S-Curve workspeed compensation |
| 2.06 | 2.0.0.3 | 2.0.0.6 | HelicalEx 가 |
| 2.05 | 2.0.0.3 | 2.0.0.5 | List Motion Stop |
| 2.04 | 2.0.0.3 | 2.0.0.5 | |
| 2.03 | 2.0.0.3 | 2.0.0.4 | ComiEcatLibCfg.ini |
| 2.03 | 2.0.0.3 | 2.0.0.3 | HOME Settling time, command |
| | | | ESCD Config |
| 2.02 | 2.0.0.1 | 2.0.0.2 | BSOD(0x1D) |
| | | | DC-Sync Interrupt |
| 2.01 | 2.0.0.0 | 2.0.0.1 | DIO Local SlvPhysAddr |
| 2.01 | 2.0.0.0 | 2.0.0.0 | DPRAM Interface |
| | | | Push/Pop Assembly 가 |
| 2.00 | 2.0.0.0 | 2.0.0.0 | LmDO (FW→DLL) |
| 1.99 | 1.5.0.7 | 1.5.4.5 | Queue MailBox 가 |
| | | | |
| 1.98 | 1.5.0.7 | 1.5.4.5 | Ptm_Begin, Ptm_RemCount, PtmSt_GetRunSts |
| | | | DC-Sync Offset |
| 1.97 | 1.5.0.7 | 1.5.4.2 | Ix ListMotion INP 가 |
| 1.95 | 1.5.0.7 | 1.5.4.2 | ListMotion DO 가 |
| 1.94 | 1.5.0.6 | 1.5.3.3 | 121 가 (Z) |
| | | | 가 |
| 1.93 | 1.5.0.6 | 1.5.3.3 | ecSlv_SetEscWDT_A() |
| | | | DIR |
| 1.92 | 1.5.0.6 | 1.5.4.1 | Driver Digital Output 가 |
| 1.92 | 1.5.0.6 | 1.5.3.2 | 가 Disconnect |
| | | | In / Out Port DLL Crash |
| | | | InitOutPDOData BSOD |
| | | | Driver 가 |
| | | | In / Out Port 가 |
| | | | LMSpdRatio 가 |
| | | | Driver TimeStamp 가 |
| | | | IDE Scan / Down DC Delay |
| 1.88 | 1.5.0.5 | 1.5.1.9 | Single Turn Overflow Position Reset 가 |
| 1.87 | 1.5.0.3 | 1.5.1.8 | BSOD (0xD1) |

| | | | |
|------|---------|---------|-------------------------------|
| 1.84 | 1.5.0.1 | 1.5.1.5 | ZVIS () |
| | | | RingCounter_Absoulte |
| | | | 27.4 (FW v1.76 ~) |
| | | | Slave Disconnect (FW v1.76 ~) |
| 1.82 | 1.5.0.1 | 1.5.1.3 | RDP 가 |
| 1.80 | 1.5.0.1 | 1.6.0.0 | MasterCMP Manual Output 가 |
| | | | MasterCMP DO Output 가 |
| 1.76 | 1.5.0.1 | 1.5.0.8 | 가 |
| | | | (Redundancy) |
| | | | () 가 |
| | | | () 가 |
| | | | 가 |
| | | | Jerk Mode 가 |
| 1.75 | 1.5.0.1 | 1.5.0.6 | HomeOffsetEx 가 |
| | | | 가 |
| | | | ecmGn_InitFromFile |
| 1.72 | 1.5.0.1 | 1.5.0.4 | Jerk Profile_Velocity 가 |
| | | | Jerk Profile_Time 가 |
| | | | CKD |
| 1.71 | 1.5.0.1 | 1.5.0.3 | 1) 가 |
| 1.70 | 1.5.0.1 | 1.5.0.2 | 가 |

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