

Software Update History 1
Version 2 1
Version 3 6

Software Update History

Version 2

Cores Ver.	FW.	Drv.	DLL.	
250808_1	2.165	2.15	2.27	- : MTU Config Board (FW v2.161)
250808_0	2.164	2.15	2.27	- : OSize Assignment Config - : PDO Map Timeout (OP) - : Vender ODM Slave OP - : SDO R/W Subidx 가
250709_0	2.163	2.15	2.26	- : Hot Connect 가 - : Firmware Verify Only 가 - : ecaiGetChanVal_I_L() - : ALStatus Error 가 (4Xh DC_NOT_WORKING) - : DC 가 (DC SafeOP 가) - :
250605_0	2.162	2.15	2.25	- : FoE 가 (ecSlv_FoE[_A]\(\)) - : InitSM 가 (Initial AL Status) - : BootStrap 가 - : Slave AL State 가 - : ecSlv_SetAlState() 가 - : Board LoadDevice 가 - : NetID ListMotion 가 - : Beckhoff chipset - : Cfg Download - : HomeCfg_SetMode() Abort Exception - : UnloadDevice Exception (VC22) - : MBX , Abort Code 가
250509_0	2.160	2.15	2.24	- : DLL (VC10→VC22) - : NetInfo 가 - : ecmLmSt_GetQueltemCounts() 가
250430_0	2.159	2.15	2.23	- : PossCorr PDO Follow 가
250411_0	2.158	2.15	2.22	- : Frequency Inverter 가
250408_0	2.157	2.15	2.21	- : Statemachine 가 - : AL Status
250401_1	2.156	2.15	2.21	- : AL Status, DC Setup
250328_0	2.155	2.15	2.20	- : 가 / - : 가 /
250327_2	2.154	2.15	2.20	- : 가
250327_0	2.153	2.15	2.20	- : 가 OPDrop (Drop) - : 가 AL Status Code (/ Slave 1) - : OP (/ 10) - : MST/MODE (/ 0.2) - : hex (h)

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250324_0	2.152	2.15	2.20	- : x64 OS event type CMP callback handler dll crash
250320_0	2.152	2.15	2.19	- : Onboard CMP Feedback 가
250311_0	2.151	2.15	2.19	- : LX554 onboard CMP
250212_0	2.150	2.15	2.19	- : CMD 1 (fw v2.120)
250210_0	2.149	2.15	2.19	- : Servo Home (Servo Home Start Delay)
250124_0	2.148	2.15	2.19	- : Sync Start 2,3
250121_1	2.147	2.15	2.19	- : 240726_0(FW v2.136) Cmd, Feed, RingCount - : Max Device (Device 8 , NET 8)
250120_0	2.146	2.15	2.18	- : ABS SvOn CMD 가 - : DSP Boot Cfg Config interlock - : AnalogOutput F _L 가
250117_0	2.145	2.15	2.17	- : ABS SvOn CMD - : SxOutPDO_Set 가
241220_0	2.144	2.15	2.16	- : InitFromFile() - : SetupMotionEnvironmentFromFile() 가 (InitFromFile) - : LX554 Onboard CMP : Net_[Set/Get]Info() 가 - : Sweep Override GetLastErrorMsg() 가 - : Sweep Override deactivate sequence 가 - : Sweep Override Exception (0) - : OPDOSYNC - : Sweep Override
241120_0	2.143	2.15	2.15	- : (FW Build Version 가, Revision) - : INP TimeOut 가 - : ecNet_GetBoardLed() 가 - : PreOP transition - : Reg134 read
241108_0	2.142	2.15	2.14	- : LX554 OnBoard CMP ,
240919_0	2.141	2.15	2.14	- : Cfg (Servo On 가)
240913_2	2.140	2.15	2.14	- : Bootcomplete DSP (Datasync) - : Express Type PDO (PCI/Ex 가)
240830_0	2.138	2.13	2.13	- : Disconnect Check - : Express Type PDO Size (2k → 4k)
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 Errorcode가 CCCC

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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) (Config Packet)
240605_1	2.126	2.10	2.10	- : SCAN (DISCONNECT SafeOP DISCONNECT)
240604_1	2.124	2.10	2.10	- : Disconnect, OP (Physical ID 0x0 가)
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)
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

Cores Ver.	FW.	Drv.	DLL.	
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 - : OP 가 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
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

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230519_0	2.83	2.5.0.0	2.5.3.0	- : SDO (221208_0 AbortCode) FW Down - : 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
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

Cores Ver.	FW.	Drv.	DLL.	
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 - eccdiLtc_IsAddedChannel() Stack - ecNet_IsBootCompt() NetID

Version 3

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240711_0	3.5	3.0.1	3.0.3	- Revert: 240709_0
240710_1	3.4	3.0.1	3.0.3	- : Override (240619_0)
240619_0	3.3	3.0.1	3.0.3	- : Override
240614_0	3.2	3.0.1	3.0.3	- : Override, Stop +
240401_0	3.0	3.0.1	3.0.3	- : Sampling (20%) - : BootUp Delay 가 (Master) - : Config OutPDO가
240327_0	3.0	3.0.1	3.0.3	- : ODM (2XPattern) Start IN_WAIT Interlock 가
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.	
-	-	-	-	1.10.5 ComilDE
				Config
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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