

Software Update History ..... 1  
Version 2 ..... 1  
Version 3 ..... 5

# Software Update History

## Version 2

Cores Ver.	FW.	Drv.	DLL.	
250124_0	<b>2.148</b>	2.15	<b>2.19</b>	- : Sync Start 2,3
250121_1	<b>2.147</b>	2.15	<b>2.19</b>	- : 240726_0(FW v2.136) Cmd, Feed, RingCount - : Max Device ( Device 8 , NET 8 )
250120_0	<b>2.146</b>	2.15	<b>2.18</b>	- : ABS SvOn CMD 가 - : DSP Boot Cfg Config interlock - : AnalogOutput F _L 가
250117_0	<b>2.145</b>	2.15	<b>2.17</b>	- : ABS SvOn CMD - : SxOutPDO_Set 가
241220_0	<b>2.144</b>	2.15	<b>2.16</b>	- : 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	<b>2.143</b>	2.15	<b>2.15</b>	- : (FW Build Version 가, Revision ) - : INP TimeOut 가 - : ecNet_GetBoardLed() 가 - : PreOP transition - : Reg134 read
241108_0	<b>2.142</b>	2.15	2.14	- : LX554 OnBoard CMP ,
240919_0	<b>2.141</b>	2.15	2.14	- : Cfg ( Servo On 가 )
240913_2	<b>2.140</b>	<b>2.15</b>	<b>2.14</b>	- : Bootcomplete DSP (Datasync ) - : Express Type PDO ( PCI/Ex 가)
240830_0	<b>2.138</b>	<b>2.13</b>	<b>2.13</b>	- : Disconnect Check - : Express Type PDO Size (2k → 4k)
240726_0	<b>2.136</b>	2.10	<b>2.12</b>	- : Servo On Operation Enable Timeout (0.5s→3s) - : ( 1 CMD/FEED )
240711_1	<b>2.135</b>	2.10	2.11	- : Arc
240705_1	<b>2.132</b>	2.10	2.11	- : LM Arc OverrideByRatio
240703_0	2.131	2.10	<b>2.11</b>	- : ecmlxCfg_SetSpeedPatt_time ErrorCode가 CCCC
240626_0	<b>2.131</b>	2.10	2.10	- : LM Arc - : ELMO Drive OP

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240621_0	<b>2.129</b>	2.10	2.10	- Override
240612_0	<b>2.128</b>	2.10	2.10	- : OP Firmware Down
240610_0	<b>2.127</b>	2.10	2.10	- : MultiPacket (1500byte Packet) (Config Packet)
240605_1	<b>2.126</b>	2.10	2.10	- : SCAN (DISCONNECT SafeOP DISCONNECT)
240604_1	<b>2.124</b>	2.10	2.10	- : Disconnect, OP (Physical ID 0x0 가)
240528_1	<b>2.122</b>	2.10	2.10	- : DISCONNECT Slave
240528_0	<b>2.121</b>	2.10	2.10	- : DISCONNECT, CONNECT - : Physical Address 0
240523_0	<b>2.120</b>	2.10	2.10	- : UnitDist
240521_0	<b>2.119</b>	2.10	2.10	- : Core Interface - : BitSequence RunState (240517_0)
240517_0	<b>2.118</b>	<b>2.10</b>	<b>2.10</b>	- : 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	<b>2.117</b>	2.7	2.9.2	- : FW 가 (Home, SmartMove, StopCompt)
240503_0	<b>2.116</b>	2.7	2.9.2	- : OverrideSpd ( ) -21060
240430_0	<b>2.115</b>	2.7	2.9.2	- : State Machine fw down - : All Disconnect
240423_1	<b>2.113</b>	2.7	2.9.2	- : Init→PreOP
240415_0	<b>2.112</b>	2.7	2.9.2	- : InPDOSkipCount 가 - : Init→PreOP 가 - : C#
240403_2	<b>2.110</b>	2.7	2.9.2	- : 가 (OP, Mst, AxisMode)
240402_1	<b>2.109</b>	2.7	<b>2.9.2</b>	- : NikkiDenso OP
240402_0	2.108	2.7	<b>2.9.1</b>	- : Compiler VC22 to VC10 (Shared Memory )
240315_0	2.108	2.7	<b>2.9</b>	- : ODM (SmartMoveToStart ) - : UnitSpeed - : ecERR_DEV_BOOT_TIMEOUT(-8) - : ecERR_DATASYNC_NOT_COMPT(-13) 가
240223_0	<b>2.107</b>	2.7	2.8	- : 5003 Profile SCAN
240222_0	<b>2.106</b>	2.7	2.8	- : SCAN

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240221_0	<b>2.105</b>	2.7	2.8	- : DLL (VC10→VC22) - : Reg134 PreOP - : 5003 Profile Slave 가
240215_2	<b>2.104</b>	2.6.5	2.7	- : Slot Scan
240207_0	<b>2.100</b>	2.6.5	2.7	- : Ring
240201_0	<b>2.99</b>	2.6.5	2.6.7	- : SCAN-Download ( FW Down )
240130_0	<b>2.98</b>	2.6.5	2.6.7	- : Reg134ID Read Timeout - : Slot SCAN (ComilDE v1.11 ) - : Ring , LINK -
240126_0	<b>2.97</b>	2.6.5	2.6.7	- : (SxStop) 가 가 - : OP Init
240123_0	<b>2.96</b>	2.6.5	2.6.7	- Revert: MultiPacket (231102_0)
240119_0	<b>2.95</b>	2.6.5	2.6.7	- : Sweep Override State , 가
240116_0	2.94	2.6.5	<b>2.6.7</b>	- : Reg134ID Read
231218_0	2.94	<b>2.6.5</b>	<b>2.6.6</b>	- : DLL Load Exception - : Driver (2.6.4.0 )
231102_0	<b>2.94</b>	2.6.4.0	2.6.5.0	- : MultiPacket
231026_0	<b>2.93</b>	2.6.4.0	2.6.5.0	- : BitSequence fix
231025_0	<b>2.92</b>	2.6.4.0	<b>2.6.5.0</b>	- : OPDOSync 가 - : BitSequence 가 - : Master OP 가
230927_0	<b>2.91</b>	2.6.4.0	<b>2.6.4.0</b>	- : Sweep Override Emul 가 ( ) - : Sweep Override Status 가, , Unmap 가 ( ) - : SmartMove 가 Interlock 가
230920_0	<b>2.90</b>	2.6.4.0	<b>2.6.3.0</b>	- : RawInPDO 가 - : Master Board가 LoadDLL/UnloadDLL App Crash
230914_0	<b>2.89</b>	2.6.4.0	<b>2.6.2.0</b>	- : ReleaseNote 가 (md) - : ( 가) - : ODM (SmartVMoveStart 가 )
230822_1	<b>2.87</b>	2.6.4.0	<b>2.6.1.0</b>	- : 230718_0 Raw[In/Out] PDO
230818_1	<b>2.86</b>	<b>2.6.4.0</b>	<b>2.6.0.0</b>	- : BSOD - : Sweep Override (ODM) Sampling Data - : 230713_0 PCI BSOD
230718_0	<b>2.84</b>	<b>2.6.1.0</b>	<b>2.6.0.0</b>	- : Profile Torque Mode 가 - : Raw[In/Out] PDO
230713_0	2.83	<b>2.6.0.0</b>	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	<b>2.83</b>	2.5.0.0	<b>2.5.3.0</b>	- : SDO (221208_0 AbortCode ) FW Down - : ODM Smart[V]Move 가
230516_0	<b>2.82</b>	2.5.0.0	2.5.2.0	- : LS IO OP - : Weidmuller Slot OP
230508_0	2.82	2.5.0.0	<b>2.5.2.0</b>	- : ecdoputOne_L() 가 Exception
230503_0	<b>2.82</b>	2.5.0.0	2.5.1.0	- : rdp (s-curve extstop )
230410_0	<b>2.81</b>	2.5.0.0	<b>2.5.1.0</b>	- : C# - : Slv_SdoInfo() - : ResetEsc() - : Servo Home Mode PDO "Mod of Operation" ( ) - : LmOverrideRatio() 0 Ratio (Invalid Parameter) - : Delay ( ) - : SD Disable Latch 가
230406_0	<b>2.80</b>	2.5.0.0	2.5.0.0	- : Data
230313_0	<b>2.78</b>	<b>2.5.0.0</b>	<b>2.5.0.0</b>	- : DLL v2.4.12.0 Lx554 Load 가 - : NetID interlock - :
230307_0	<b>2.77</b>	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	<b>2.4.12.0</b>	- DLL CPU
230217_0	<b>2.76</b>	2.4.3.0	<b>2.4.11.0</b>	- ODM (Stop Override 가 )
230207_0	<b>2.75</b>	2.4.3.0	<b>2.4.9.0</b>	- Master Slave Slave 가
230206_0	<b>2.74</b>	2.4.3.0	2.4.8.0	- OverrideMoveTo() - Master Slave Slave
230201_0	<b>2.73</b>	2.4.3.0	2.4.8.0	- ODM (ODM_OverrideSpeedByRatio)
230131_0	<b>2.72</b>	2.4.3.0	2.4.8.0	- ODM (ODM_OverrideSpeedByRatio)
230127_0	2.71	2.4.3.0	<b>2.4.8.0</b>	- ODM (ODM_SmartVMove) DLL export
230116_0	2.71	2.4.3.0	2.4.6.0	- Header
230115_0	<b>2.71</b>	2.4.3.0	<b>2.4.6.0</b>	- Standalone ODM (SO )
230109_0	2.70	2.4.3.0	<b>2.4.5.0</b>	- IX FW→DLL
230106_0	<b>2.70</b>	2.4.3.0	<b>2.4.4.0</b>	- Delay - IX MasterAxisFix 가

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221208_0	<b>2.68</b>	<b>2.4.3.0</b>	<b>2.4.3.0</b>	- 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	<b>2.4.2.0</b>	2.4.0.0	- OpenDevice (-12) - GetVerInfo() False
221027_0	<b>2.67</b>	2.4.1.0	2.4.0.0	- SxMot_Stop TouchProbe
221024_2	<b>2.65</b>	2.4.1.0	2.4.0.0	-
221024_0	<b>2.63</b>	2.4.1.0	2.4.0.0	- OverrideSpeed 가
220926_0	2.62	<b>2.4.1.0</b>	2.4.0.0	- Scan-Download BSOD 가
220920_0	<b>2.62</b>	2.4.0.0	2.4.0.0	- DC-Sync Config (DC-Factor )
220907_1	<b>2.60</b>	<b>2.4.0.0</b>	<b>2.4.0.0</b>	- DC-Sync Config (Sync0, 1 Config )
220826_1	<b>2.45</b>	2.3.1.0	<b>2.3.6.0</b>	- OP (LinMot )
-	-	-	-	<b>ComiIDE v1.9 Config가 ( OP 가)</b>
220818_0	<b>2.44</b>	2.3.1.0	2.3.5.0	- OP (LS-iX7 )
220805_0	<b>2.43</b>	2.3.1.0	<b>2.3.5.0</b>	- LX553 가 - ecdiLtc_IsAddedChannel() Stack - ecNet_IsBootCompt() NetID

### Version 3

Cores Ver.	FW.	Drv.	DLL.	
240711_0	<b>3.5</b>	3.0.1	3.0.3	- Revert: 240709_0
240710_1	<b>3.4</b>	3.0.1	3.0.3	- : Override (240619_0 )
240619_0	<b>3.3</b>	3.0.1	3.0.3	- : Override
240614_0	<b>3.2</b>	3.0.1	3.0.3	- : Override, Stop +
240401_0	<b>3.0</b>	3.0.1	3.0.3	- : Sampling ( 20%) - : BootUp Delay 가 ( Master ) - : Config OutPDO가
240327_0	3.0	<b>3.0.1</b>	3.0.3	- : ODM (2XPattern ) Start IN_WAIT Interlock 가
240116_1	3.0	3.0	<b>3.0.3</b>	- : Reg134ID Read
231214_0	3.0	3.0	<b>3.0.2</b>	- : 231114_0 IN_WAIT
231129_0	3.0	3.0	<b>3.0.1</b>	- : DLL Load Exception
231114_0	<b>3.0</b>	<b>3.0</b>	<b>3.0</b>	- : ( Config ) - : LX553 PDO

Cores Ver.	FW.	Drv.	DLL.	
-	-	-	-	1.10.5 <b>ComilDE</b>
				<b>Config</b>
231102_0	<b>2.94</b>	2.6.4.0	2.6.5.0	- : MultiPacket

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

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

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

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