

EtherCAT

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• **Package** : [Firmware](#) / [Driver](#) / [Library](#) [Application](#) / [Examples](#) / [Manual](#)

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EtherCAT PCI

Stable (,)

| Ver. | Firmware | Driver | DLL | Package | Cores |
|-------------------------------|----------|----------|----------|-------------------------|---------------------------------|
| 230523_1 whql (Stable) | v2.83 | v2.5.1.0 | v2.5.3.0 | Package | Download(Cores) |

()

| Ver. | Firmware | Driver | DLL | Package | Cores |
|---------------|----------|--------|-------|-------------------------|---------------------------------|
| 250401_1 whql | v2.156 | v2.15 | v2.21 | package | Download(Cores) |
| 250212_0 whql | v2.150 | v2.15 | v2.19 | package | Download(Cores) |
| 250210_0 whql | v2.149 | v2.15 | v2.19 | | Download(Cores) |
| 250124_0 whql | v2.148 | v2.15 | v2.19 | | Download(Cores) |
| 250121_0 whql | v2.147 | v2.15 | v2.19 | package | Download(Cores) |
| 240711_1 whql | v2.135 | v2.10 | v2.11 | | Download(Cores) |
| 240705_1 whql | v2.132 | v2.10 | v2.11 | | Download(Cores) |
| 240703_0 whql | v2.131 | v2.10 | v2.11 | | Download(Cores) |
| 240626_0 whql | v2.131 | v2.10 | v2.10 | | Download(Cores) |
| 240621_0 whql | v2.129 | v2.10 | v2.10 | package | Download(Cores) |
| 240612_0 whql | v2.128 | v2.10 | v2.10 | | Download(Cores) |

| Ver. | Firmware | Driver | DLL | Package | Cores |
|----------------------------------|----------|----------|----------|-------------------------|---------------------------------|
| 240610_0 whql | v2.127 | v2.10 | v2.10 | | Download(Cores) |
| 240605_1 whql | v2.126 | v2.10 | v2.10 | | Download(Cores) |
| 240528_1 whql | v2.122 | v2.10 | v2.10 | package | Download(Cores) |
| 240528_0 whql | v2.121 | v2.10 | v2.10 | | Download(Cores) |
| 240523_0 whql | v2.120 | v2.10 | v2.10 | | Download(Cores) |
| 240521_0 whql | v2.119 | v2.10 | v2.10 | | Download(Cores) |
| 240517_0 whql | v2.118 | v2.10 | v2.10 | | Download(Cores) |
| 240510_0 whql | v2.117 | v2.7 | v2.9.2 | | Download(Cores) |
| 240503_0 whql | v2.116 | v2.7 | v2.9.2 | package | Download(Cores) |
| 240430_0 whql | v2.115 | v2.7 | v2.9.2 | package | Download(Cores) |
| 240423_1 whql | v2.113 | v2.7 | v2.9.2 | package | Download(Cores) |
| 240415_0 whql | v2.112 | v2.7 | v2.9.2 | | Download(Cores) |
| 240223_0 whql | v2.107 | v2.7 | v2.8 | | Download(Cores) |
| ComilDE v1.11 240223_0 | | | | (| -ComilDE v1.11) |
| 240207_0 whql | v2.100 | v2.6.5 | v2.7 | Package | Download(Cores) |
| 240201_0 whql | v2.99 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 240130_0 whql | v2.98 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 240126_0 whql | v2.97 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 240123_0 whql | v2.96 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 240119_0 whql | v2.95 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 240116_0 whql | v2.94 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 231218_0 whql | v2.94 | v2.6.5 | v2.6.6 | Package | Download(Cores) |
| 231102_0 whql | v2.94 | v2.6.4.0 | v2.6.5.0 | | Download(Cores) |
| 231026_0 whql | v2.93 | v2.6.4.0 | v2.6.5.0 | Package | Download(Cores) |
| 230927_0 whql | v2.91 | v2.6.4.0 | v2.6.4.0 | | Download(Cores) |

| Ver. | Firmware | Driver | DLL | Package | Cores |
|--|----------|----------|-----------|-----------------------------------|----------------------------------|
| 230920_0 whql | v2.90 | v2.6.4.0 | v2.6.3.0 | | Download(Cores) |
| 230914_0 whql | v2.89 | v2.6.4.0 | v2.6.2.0 | | Download(Cores) |
| 230713_0 whql | v2.83 | v2.6.0.0 | v2.5.3.0 | | Download(Cores) |
| PCI Express 가 | | | | | |
| 230523_1 whql (Stable) | v2.83 | v2.5.1.0 | v2.5.3.0 | Package | Download(Cores) |
| 230519_0 (TestSigned) | v2.83 | v2.5.0.0 | v2.5.3.0 | | Download(Cores) |
| 230516_0 (TestSigned) | v2.82 | v2.5.0.0 | v2.5.2.0 | | Download(Cores) |
| 230508_0 (TestSigned) | v2.82 | v2.5.0.0 | v2.5.2.0 | | Download(Cores) |
| 230503_0 (TestSigned) | v2.82 | v2.5.0.0 | v2.5.1.0 | | Download(Cores) |
| 230410_0 (TestSigned) | v2.81 | v2.5.0.0 | v2.5.1.0 | | Download(Cores) |
| 230406_0 (TestSigned) | v2.80 | v2.5.0.0 | v2.5.0.0 | | Download(Cores) |
| 230321_0 (TestSigned) | v2.79 | v2.5.0.0 | v2.5.0.0 | | Download(Cores) |
| 230223_0 | v2.76 | v2.4.3.0 | v2.4.12.0 | - | Download(Cores) |
| 2022.09.26 | v2.62 | | | | Download(Cores) |
| ComiIDE v1.9 Config (OP 가) | | | | | |
| 2022.06.07 | v2.42 | | | - | Download (Cores) |
| 2022.03.15 | v2.39 | | | - | Download (Cores) |
| 2021.12.14 | v2.27 | | | Download(Package) | Download (Cores) |
| 2021.04.05 | v2.11 | | | Download(Package) | Download (Cores) |
| 2021.02.26 | v2.7 | | | Download(Package) | Download (Cores) |
| 2021.01.05 | v2.5 | | | Download(Package) | Download (Cores) |
| 2020.11.25 | v2.3 | | | Download(Package) | Download (Cores) |
| 2020.11.23 | v2.2 | | | Download(Package) | Download (Cores) |
| 2020.11.06 | v2.1 | | | Download(Package) | Download (Cores) |
| 2020.09.21 | v2.0 | | | Download(Package) | Download (Cores) |
| 2020.08.05 | v1.98 | | | Download(Package) | Download (Cores) |
| 2020.06.17 | v1.97 | | | Download(Package) | Download (Cores) |
| 2020.04.27 | v1.94 | | | Download(Package) | Download (Cores) |
| 2020.03.18 | v1.92 | | | Download | Download (Cores) |
| 2020.03.18 | v1.91 | | | Download | |
| 2020.01.11 | v1.88 | | | Download | Download (Cores) |
| 2020.01.08 | v1.87 | | | Download | |
| 2020.01.07 | v1.87 | | | Download | |
| 2019.11.27 | v1.84 | | | Download | |
| 2019.10.24 | v1.82 | | | Download | |
| 2019.10.07 | v1.80 | | | Download | |

| Ver. | Firmware | Driver | DLL | Package | Cores |
|------------|----------|--------|-----|--------------------------|----------------------------------|
| 2019.08.23 | v1.76 | | | Download | Download(Cores) |
| 2018.06.19 | v1.67 | | | Download | Download (Cores) |

EtherCAT PCI v3

| Ver. | Firmware | Driver | DLL | Package | Cores |
|---------------|----------|----------------|---------------|-------------------------|---------------------------------|
| 250214_0 whql | v3.6 | v3.0.1 | v3.0.4 | | Download(Cores) |
| 240711_0 whql | v3.5 | v3.0.1 | v3.0.3 | | Download(Cores) |
| 240619_0 whql | v3.3 | v3.0.1 | v3.0.3 | | Download(Cores) |
| 240614_0 whql | v3.2 | v3.0.1 | v3.0.3 | | Download(Cores) |
| 240401_0 whql | v3.1 | v3.0.1 | v3.0.3 | | Download(Cores) |
| 240327_0 whql | v3.0 | v3.0.1 | v3.0.3 | | Download(Cores) |
| 240116_1 whql | v3.0 | v3.0 | v3.0.3 | | Download(Cores) |
| 231214_0 whql | v3.0 | v3.0 | v3.0.2 | | Download(Cores) |
| 231129_0 whql | v3.0 | v3.0 | v3.0.1 | | Download(Cores) |
| 231114_0 whql | v3.0 | v3.0 | v3.0 | | Download(Cores) |
| 3.0 | 1.10.5.0 | ComiIDE | Config | 가 | |
| 240116_0 whql | v2.94 | v2.6.5 | v2.6.7 | | Download(Cores) |
| 231218_0 whql | v2.94 | v2.6.5 | v2.6.6 | Package | Download(Cores) |

EtherCAT IP (StandAlone)

| | | | |
|---------------------------|-------------|-----------------------------------|--|
| F2.67_L2.5.7.0_D2.5.6.0 | 2022.12.23 | | Download(Cores_221223_2) |
| F2.64_L2.5.2.0_D2.5.2.0 | 2022.11.11. | | Download(Cores_221111_0) |
| F2.64_L2.4.11.0_D2.4.10.0 | 2022.10.07 | | Download(Cores_221007_0) |
| v2.63 | 2022.09.30 | | Download(Cores) |
| v2.62 | 2022.09.20 | Download | |
| ComiIDE v1.9.0.0 | | Config | (OP 가) |
| v2.51.0.0 | 2022.07.15 | | Download (Cores) |
| v2.42.0.0 | 2022.04.22 | | Download (Cores) |
| v2.39.0.0 | 2022.04.06 | | Download (Cores) |
| v2.06.0.0 | 2021.05.11 | | Download (Cores) |
| v2.05.0.0 | 2021.05.03 | | Download (Cores) |
| v1.0.0.0 | 2020.09.01 | Download(Package) | |

EtherCAT SW (Software EtherCAT)

| Ver. | Daemon | Engine | DLL | Package | Core |
|----------|----------|----------|-----------|-----------------------------------|----------------------------------|
| 231011_0 | v1.1.3.1 | v1.1.3.2 | v1.1.0.0 | Download(Package) | Download (Cores) |
| 230922_0 | v1.1.3.0 | v1.1.3.1 | v1.1.0.0 | - | Download (Cores) |
| 230908_0 | v1.1.3.0 | v1.1.3.0 | v1.1.0.0 | - | Download (Cores) |
| 230621_0 | v1.1.0.0 | v1.1.0.0 | v.1.1.0.0 | - | Download (Cores) |
| 210225 | | | | Download(Package) | Download (Cores) |

EtherCAT SBC

| Ver. | Firmware | Driver | DLL | Package | Cores |
|---------------|----------|----------|----------|---------|---------------------------------|
| 240715_0 whql | v2.135 | v2.10.1 | v2.11 | | Download(Cores) |
| 240703_0 whql | v2.128 | v2.10.1 | v2.10 | | Download(Cores) |
| 230704_1 whql | v2.83 | v2.5.1.1 | v2.5.3.0 | | Download(Cores) |

EtherCAT Serial Daemon

| Ver. | Daemon | Driver | DLL | Package | Cores |
|---------------|----------|-------------|-----------|---------|---------------------------------|
| 231023_0 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 | | Download(Cores) |
| 230724_2 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 | | Download(Cores) |

EtherCAT PCI & EtherCAT StandAlone

| | | | |
|--------|------------|------------------------------------|--------------------------|
| C# | 2024.05.17 | EtherCAT_Examples_CSharp (1.0.1.2) | download |
| C++ | 2021.12.03 | EtherCAT_Examples_C++ (1.0.0.1) | download |
| VC6.0 | 2023.01.09 | EtherCAT_Examples_vc6 (1.0.0.1) | download |
| Delphi | 2020.06.03 | EtherCAT_Examples_Delphi | download |

Software

| | | | |
|----------------|------------|---------------------------------------|--------------------------|
| EtherCAT_SW C# | 2021.02.25 | EtherCAT_SW_Examples_CSharp (1.0.0.0) | download |
|----------------|------------|---------------------------------------|--------------------------|

Master

Hardware

- [COMI-LX550](#) | [COMI-LX551](#) | [COMI-LX552](#) | [COMI-LX554](#)

Software

- [EtherCAT Master API \(Basic\)](#) | [EtherCAT Master API \(Full\)](#) | [EtherCAT Object Manual](#)

SW EtherCAT

- [ets_sw_manual.pdf](#)

ETS

Hardware

- [ETS-A0402MV-E](#)
- [ETS-AI08AH-E](#)

- [ETS-AO04I-E](#) | [ETS-AO04V-E](#)
- [ETS-DI16N](#) | [ETS-DI16P](#)
- [ETS-DI32N-E](#) | [ETS-DI32N-M](#) | [ETS-DI32N-T](#)
- [ETS-DO16N](#) | [ETS-DO16P](#)
- [ETS-DO32N-E](#) | [ETS-DO32N-M](#) | [ETS-DO32N-T](#)
- [ETS-D08MN](#) | [ETS-D08MP](#)
- [ETS-D04R](#)
- [ETS-EC04H-M](#)
- [ETS-MC02P](#)
- [ETS-SC08A](#)
- [ETS-HUB08A](#)

Software

- [ETS SW Manual](#)
- [ETS-MC02P](#)

ECS

Hardware

- [ECS-NC100](#)
- [ECS-DO04R-24V](#) | [ECS-DO16N-24V](#)
- [ECS-DI16N-24V](#) | [ECS-DI16P-24V](#)
- [ECS-AI04IH-420](#) | [ECS-AI04VH-B10](#) | [ECS-AI08I-420](#)
- [ECS-AI04R](#) | [ECS-AI04T](#)
- [ECS-AO02IH-420](#) | [ECS-AO04IH-420](#) | [ECS-AO04VH-B10](#)
- [ECS-SC02I-232](#) | [ECS-SC02I-485](#)
- [ECS-CN08P](#)

Software

- [ECS SW Manual](#)

EVS

Hardware

- [EVS-DI32N](#)
- [EVS-DO32N](#)
- [EVS-RPM](#)

Software

- [EVS Software Manual](#)

EPS

Software

- [EPS-DO24](#) | [EPS-DI24](#)
- [EPS-AO04I](#)
- [EPS-AI08IH](#) | [EPS-AI04RNT](#) | [EPS-AI08RNT](#)

Version 2

| Cores Ver. | FW. | Drv. | DLL. | |
|------------|--------------|------|-------------|---|
| 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) |

| Cores Ver. | FW. | Drv. | DLL. | |
|-------------------|--------------|-------------|-------------|---|
| 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 |

| Cores Ver. | FW. | Drv. | DLL. | |
|------------|--------------|-------------|--------------|--|
| 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 |

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

Version 3

| Cores Ver. | FW. | Drv. | DLL. | |
|------------|------------|--------------|--------------|--|
| 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 |
| - | - | - | - | Config 1.10.5 ComiIDE |

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

| | | | | | |
|------|---------|----------|--|--------------------------------|-----------|
| 2.42 | 2.3.1.0 | 2.3.4.0 | - | Slave Home | FW Down |
| 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 | |
| 2.11 | 2.0.0.3 | 2.0.1.3 | opdrop | | |
| | | | Dio Multi 32 | | |
| 2.09 | 2.0.0.3 | 2.0.1.2 | 8 Multi | | |
| | | | S-Curve | | |
| | | | Helical Ix Override | | |
| | | | Helical ListMotion | | |

| | | | | | | | |
|-------------|----------------|----------------|--|----------------|----------------|--------------|--|
| | | | EL | EL | Stop | 27.4 | |
| 2.08 | 2.0.0.3 | 2.0.1.2 | 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 | |
| | | | Ptm_Begin, Ptm_RemCount, PtmSt_GetRunSts | | | | |
| 1.98 | 1.5.0.7 | 1.5.4.5 | DC-Sync Offset | | | | |
| | | | | | | | |
| 1.97 | 1.5.0.7 | 1.5.4.2 | lx 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 | (2 가) 가 |
| | | | 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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