



EtherCAT

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EtherCAT PCI

| Ver.                                      | Firmware | Driver   | DLL       | Package                           | Cores                            |
|-------------------------------------------|----------|----------|-----------|-----------------------------------|----------------------------------|
| 240415_0 whql                             | v2.112   | v2.7     | v2.9.2    |                                   | <a href="#">Download(Cores)</a>  |
| 240223_0 whql                             | v2.107   | v2.7     | v2.8      |                                   | <a href="#">Download(Cores)</a>  |
| ComiIDE v1.11 ( -ComiIDE v1.11 240223_0 ) |          |          |           |                                   |                                  |
| 240207_0 whql                             | v2.100   | v2.6.5   | v2.7      | <a href="#">Package</a>           | <a href="#">Download(Cores)</a>  |
| 240201_0 whql                             | v2.99    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 240130_0 whql                             | v2.98    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 240126_0 whql                             | v2.97    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 240123_0 whql                             | v2.96    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 240119_0 whql                             | v2.95    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 240116_0 whql                             | v2.94    | v2.6.5   | v2.6.7    |                                   | <a href="#">Download(Cores)</a>  |
| 231218_0 whql                             | v2.94    | v2.6.5   | v2.6.6    | <a href="#">Package</a>           | <a href="#">Download(Cores)</a>  |
| 231102_0 whql                             | v2.94    | v2.6.4.0 | v2.6.5.0  |                                   | <a href="#">Download(Cores)</a>  |
| 231026_0 whql                             | v2.93    | v2.6.4.0 | v2.6.5.0  | <a href="#">Package</a>           | <a href="#">Download(Cores)</a>  |
| 230927_0 whql                             | v2.91    | v2.6.4.0 | v2.6.4.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230920_0 whql                             | v2.90    | v2.6.4.0 | v2.6.3.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230914_0 whql                             | v2.89    | v2.6.4.0 | v2.6.2.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230713_0 whql                             | v2.83    | v2.6.0.0 | v2.5.3.0  |                                   | <a href="#">Download(Cores)</a>  |
| PCI Express 가                             |          |          |           |                                   |                                  |
| 230523_1 whql (Stable)                    | v2.83    | v2.5.1.0 | v2.5.3.0  | <a href="#">Package</a>           | <a href="#">Download(Cores)</a>  |
| 230519_0 (TestSigned)                     | v2.83    | v2.5.0.0 | v2.5.3.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230516_0 (TestSigned)                     | v2.82    | v2.5.0.0 | v2.5.2.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230508_0 (TestSigned)                     | v2.82    | v2.5.0.0 | v2.5.2.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230503_0 (TestSigned)                     | v2.82    | v2.5.0.0 | v2.5.1.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230410_0 (TestSigned)                     | v2.81    | v2.5.0.0 | v2.5.1.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230406_0 (TestSigned)                     | v2.80    | v2.5.0.0 | v2.5.0.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230321_0 (TestSigned)                     | v2.79    | v2.5.0.0 | v2.5.0.0  |                                   | <a href="#">Download(Cores)</a>  |
| 230223_0                                  | v2.76    | v2.4.3.0 | v2.4.12.0 | -                                 | <a href="#">Download(Cores)</a>  |
| 2022.09.26                                | v2.62    |          |           |                                   | <a href="#">Download(Cores)</a>  |
| ComiIDE v1.9 Config ( OP 가 )              |          |          |           |                                   |                                  |
| 2022.06.07                                | v2.42    |          |           | -                                 | <a href="#">Download (Cores)</a> |
| 2022.03.15                                | v2.39    |          |           | -                                 | <a href="#">Download (Cores)</a> |
| 2021.12.14                                | v2.27    |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2021.04.05                                | v2.11    |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2021.02.26                                | v2.7     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2021.01.05                                | v2.5     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.11.25                                | v2.3     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.11.23                                | v2.2     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.11.06                                | v2.1     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.09.21                                | v2.0     |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |

| Ver.       | Firmware | Driver | DLL | Package                           | Cores                            |
|------------|----------|--------|-----|-----------------------------------|----------------------------------|
| 2020.08.05 | v1.98    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.06.17 | v1.97    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.04.27 | v1.94    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.03.18 | v1.92    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |
| 2020.03.18 | v1.91    |        |     | <a href="#">Download</a>          |                                  |
| 2020.01.11 | v1.88    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |
| 2020.01.08 | v1.87    |        |     | <a href="#">Download</a>          |                                  |
| 2020.01.07 | v1.87    |        |     | <a href="#">Download</a>          |                                  |
| 2019.11.27 | v1.84    |        |     | <a href="#">Download</a>          |                                  |
| 2019.10.24 | v1.82    |        |     | <a href="#">Download</a>          |                                  |
| 2019.10.07 | v1.80    |        |     | <a href="#">Download</a>          |                                  |
| 2019.08.23 | v1.76    |        |     | <a href="#">Download</a>          | <a href="#">Download(Cores)</a>  |
| 2018.06.19 | v1.67    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |

## EtherCAT PCI v3

| Ver.          | Firmware | Driver  | DLL    | Package                 | Cores                           |
|---------------|----------|---------|--------|-------------------------|---------------------------------|
| 240327_0 whql | v3.0     | v3.0.1  | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240116_1 whql | v3.0     | v3.0    | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 231214_0 whql | v3.0     | v3.0    | v3.0.2 |                         | <a href="#">Download(Cores)</a> |
| 231129_0 whql | v3.0     | v3.0    | v3.0.1 |                         | <a href="#">Download(Cores)</a> |
| 231114_0 whql | v3.0     | v3.0    | v3.0   |                         | <a href="#">Download(Cores)</a> |
| 3.0           | 1.10.5.0 | ComilDE | Config | 가                       |                                 |
| 240116_0 whql | v2.94    | v2.6.5  | v2.6.7 |                         | <a href="#">Download(Cores)</a> |
| 231218_0 whql | v2.94    | v2.6.5  | v2.6.6 | <a href="#">Package</a> | <a href="#">Download(Cores)</a> |

## EtherCAT IP (StandAlone)

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

## EtherCAT SW (Software EtherCAT)

| Ver.     | Daemon   | Engine   | DLL      | Package                           | Core                             |
|----------|----------|----------|----------|-----------------------------------|----------------------------------|
| 231011_0 | v1.1.3.1 | v1.1.3.2 | v1.1.0.0 | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 230922_0 | v1.1.3.0 | v1.1.3.1 | v1.1.0.0 | -                                 | <a href="#">Download (Cores)</a> |
| 230908_0 | v1.1.3.0 | v1.1.3.0 | v1.1.0.0 | -                                 | <a href="#">Download (Cores)</a> |
| 230621_0 | v1.1.0.0 | v1.1.0.0 | v1.1.0.0 | -                                 | <a href="#">Download (Cores)</a> |
| 210225   |          |          |          | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |

## EtherCAT SBC

| Ver.          | Firmware | Driver   | DLL      | Package | Cores                           |
|---------------|----------|----------|----------|---------|---------------------------------|
| 230704_1 whql | v2.83    | v2.5.1.1 | v2.5.3.0 |         | <a href="#">Download(Cores)</a> |

## EtherCAT Serial Daemon

| Ver.          | Daemon   | Driver      | DLL       | Package | Cores                           |
|---------------|----------|-------------|-----------|---------|---------------------------------|
| 231023_0 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 |         | <a href="#">Download(Cores)</a> |
| 230724_2 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 |         | <a href="#">Download(Cores)</a> |

## EtherCAT PCI & EtherCAT StandAlone

|        |            |                                    |                          |
|--------|------------|------------------------------------|--------------------------|
| C#     | 2021.09.09 | EtherCAT_Examples_CSharp (1.0.1.1) | <a href="#">download</a> |
| C++    | 2021.12.03 | EtherCAT_Examples_C++ (1.0.0.1)    | <a href="#">download</a> |
| VC6.0  | 2023.01.09 | EtherCAT_Examples_vc6 (1.0.0.1)    | <a href="#">download</a> |
| Delphi | 2020.06.03 | EtherCAT_Examples_Delphi           | <a href="#">download</a> |

## Software

|                |            |                                       |                          |
|----------------|------------|---------------------------------------|--------------------------|
| EtherCAT_SW C# | 2021.02.25 | EtherCAT_SW_Examples_CSharp (1.0.0.0) | <a href="#">download</a> |
|----------------|------------|---------------------------------------|--------------------------|

# 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](#)

- COMIZOA-ETC
- COMIZOA-ETS
- COMIZOA-ECS
- COMIZOA-EVS
- COMIZOA-EAS
- COMIZOA-FC

- COMIZOA-SES
- COMIZOA-KES
- COMIZOA-INTERLOCK
- COMIZOA-OHT

- COMIZOA-TES

## Master

- COMI-LX55x CE
- COMI-LX554 CE
- COMI-EM-H3-C6 CE
- COMI-LX55x RoHS
- COMI-LX554 RoHS

## ETS

- ETS Slave CE
  - ETS-MT02H-M
  - ETS-MC02P
  - ETS-SC08A
  - ETS-AI08AH-E
  - ETS-DI16N-MCE / ETS-DO16N-MCE
  - ETS-DI32N-MCE / ETS-DO32N-MCE
  - ETS-D08MN-MCE
- ETS Slave CE
  - ETS-DI16N-E / ETS-DO16N-E
  - ETS-D04MN-E / ETS-D08MN-E
  - ETS-AI16AH-E / ETS-AO04I-E / ETS-AO04V-E / ETS-A0402MV-E
  - ETS-EC04H-M / ETS-SC08A-S
  - ETS-HUB04 / ETS-HUB06 / ETS-HUB08
- ETS Slave CE
  - ETS-DI06N-HM
  - ETS-DO16N-HM
  - ETS-AI08AH-HM
- ETS Slave CE
  - ETS-DI32N-M / ETS-DO32N-M
  - ETS-DI32N-T / ETS-DO32N-T
  - ETS-DI32N-E / ETS-DO32N-E
- ETS System RoHS
- ETS Slave RoHS
  - ETS-DI32N-M / ETS-DO32N-M
  - ETS-DI32N-T / ETS-DO32N-T
  - ETS-DI32N-E / ETS-DO32N-E

## ECS

- ECS System CE

• ECS System RoHS

|          |            |                  |                                  |
|----------|------------|------------------|----------------------------------|
| CMC      | -          | Cmc_LogApp       | <a href="#">download</a>         |
| CMC      | -          | Cmc_TestApp      | <a href="#">download</a>         |
| PUMP     | 2019.06.12 | examples_manual  | <a href="#">Download</a>         |
| PUMP     | 2020.01.08 | ses_pump         | <a href="#">Download</a>         |
| IDE_Temp | 2022.01.07 | ComiIDE.v1.6.2.6 | <a href="#">ComiIDE v1.6.2.6</a> |

Version 2

| Cores Ver. | FW.          | Drv.           | DLL.           |                                                                                                                    |
|------------|--------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------------|
| 240415_0   | <b>2.112</b> | 2.7            | 2.9.2          | - : InPDOSkipCount 가<br>- : Init→PreOP 가<br>- : 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 )<br>- : UnitSpeed - : ecERR_DEV_BOOT_TIMEOUT(-8)<br>- : 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                                                                                                           |
| 240221_0   | <b>2.105</b> | 2.7            | 2.8            | - : DLL (VC10→VC22)<br>- : Reg134 PreOP<br>- : 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<br>- : Slot SCAN (ComiIDE v1.11 )<br>- : Ring , LINK -                                   |
| 240126_0   | <b>2.97</b>  | 2.6.5          | 2.6.7          | - : (SxStop) 가 가<br>- : 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<br>- : 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<br>- : BitSequence 가<br>- : Master OP 가                                                             |
| 230927_0   | <b>2.91</b>  | 2.6.4.0        | <b>2.6.4.0</b> | - : Sweep Override Emul 가 ( )<br>- : Sweep Override Status 가, , Unmap 가 ( )<br>- : SmartMove 가 Interlock 가         |
| 230920_0   | <b>2.90</b>  | 2.6.4.0        | <b>2.6.3.0</b> | - : RawInPDO 가<br>- : 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)<br>- : ( 가)<br>- : 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<br>- : Sweep Override (ODM) Sampling Data<br>- : 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<br>- : 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                                                                                    |

| Cores Ver. | FW.         | Drv.           | DLL.            |                                                                                                                                                                                                                                                                                    |
|------------|-------------|----------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230519_0   | <b>2.83</b> | 2.5.0.0        | <b>2.5.3.0</b>  | - : SDO FW Down (221208_0 AbortCode )<br>- : ODM Smart[V]Move 가                                                                                                                                                                                                                    |
| 230516_0   | <b>2.82</b> | 2.5.0.0        | 2.5.2.0         | - : LS IO OP<br>- : 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#<br>- : Slv_SdoInfo()<br>- : ResetEsc()<br>- : Servo Home Mode PDO “Mod of Operation”<br>( )<br>- : LmOverrideRatio() 0 Ratio (Invalid Parameter)<br>- : Delay ( )<br>- : 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<br>- : NetID interlock<br>- :                                                                                                                                                                                                                       |
| 230307_0   | <b>2.77</b> | 2.4.3.0        | 2.4.12.0        | - : IDE LastConfig Auto Load<br>- : RingCnt Multiturn Home ComptPosition<br>- : ODM (LmOverrideRatio)<br>- : Virtual Axis 가<br>- : 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()<br>- 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<br>- IX MasterAxisFix 가                                                                                                                                                                                                                                                    |
| 221208_0   | <b>2.68</b> | <b>2.4.3.0</b> | <b>2.4.3.0</b>  | - Standalone<br>- UnitDist, UnitSpeed<br>- SetOutPdo Crash<br>- Header 가<br>- CoeSDO Abord Code 가<br>- LostFrame 가<br>- GetInfo Exception<br>- LmSt_GetRemStepCount() FW ( DLL+FW)<br>- HouseKeep Auto Download NetIdx→NetID<br>- SyncFactor1 (LS-iX7NH)<br>- NetID (NetIdx→NetID) |
| 221117_0   | 2.67        | <b>2.4.2.0</b> | 2.4.0.0         | - OpenDevice (-12)<br>- 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<br>- ecdiLtc_IsAddedChannel() Stack<br>- ecNet_IsBootCompt() NetID                                                                                                                                                                                                       |

Version 3

| Cores Ver. | FW. | Drv. | DLL.         |                   |
|------------|-----|------|--------------|-------------------|
| 240116_1   | 3.0 | 3.0  | <b>3.0.3</b> | - : Reg134ID Read |

| Cores Ver. | FW.         | Drv.       | DLL.         |                                 |
|------------|-------------|------------|--------------|---------------------------------|
| 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 )<br>- : LX553 PDO |
| -          | -           | -          | -            | 1.10.5 ComiIDE Config           |
| 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           |
|             |                |                | EEPROM Read / Write            |                                |             |
| <b>2.34</b> | 2.3.0.0        | 2.3.0.0        | 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<br>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 )<br>가                                                                                                                                 |
| <b>1.93</b> | 1.5.0.6        | <b>1.5.3.3</b> | ecSlv_SetEscWDT_A()<br>DIR                                                                                                                      |
| 1.92        | 1.5.0.6        | <b>1.5.4.1</b> | Driver Digital Output 가<br>가 Disconnect                                                                                                         |
| <b>1.92</b> | <b>1.5.0.6</b> | <b>1.5.3.2</b> | In / Out Port DLL Crash<br>InitOutPDOData BSOD<br>Driver 가<br>In / Out Port 가<br>LMSpdRatio 가<br>Driver TimeStamp 가<br>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 ( )<br>RingCounter_Absoulte<br>27.4 (FW v1.76 ~)<br>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<br>MasterCMP DO Output 가<br>가<br>(Redundancy)<br>( ) 가<br>( ) 가<br>가<br>Jerk Mode 가<br>(2 가 ) 가                       |
| <b>1.75</b> | 1.5.0.1        | <b>1.5.0.6</b> | HomeOffsetEx 가<br>가<br>ecmGn_InitFromFile                                                                                                       |
| <b>1.72</b> | 1.5.0.1        | <b>1.5.0.4</b> | Jerk Profile_Velocity 가<br>Jerk Profile_Time 가<br>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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