



# EtherCAT

- [Package](#)
- [Example](#)
- [Manual](#)
- [ESI](#)
- [Certificate](#)
- [ETC](#)
- [History](#)

• **Package : Firmware / Driver / Library    Application / Examples / Manual**

• **Cores : Firmware / Driver / Library**

## EtherCAT PCI

Stable ( , )

Ver.	Firmware	Driver	DLL	Package	Cores
<b>230523_1 whql (Stable)</b>	v2.83	v2.5.1.0	v2.5.3.0	<a href="#">Package</a>	<a href="#">Download(Cores)</a>

( )

Ver.	Firmware	Driver	DLL	Package	Cores
250917_0 whql	v2.167	v2.15	v2.29		<a href="#">Download(Cores)</a>
250909_0 whql	v2.166	v2.15	v2.28		<a href="#">Download(Cores)</a>
250903_0 whql	v2.165	v2.15	v2.28		<a href="#">Download(Cores)</a>
250808_1 whql	v2.165	v2.15	v2.27		<a href="#">Download(Cores)</a>
250411_0 whql	v2.158	v2.15	v2.22	<a href="#">package</a>	<a href="#">Download(Cores)</a>
250212_0 whql	v2.150	v2.15	v2.19		<a href="#">Download(Cores)</a>
250210_0 whql	v2.149	v2.15	v2.19		<a href="#">Download(Cores)</a>
250124_0 whql	v2.148	v2.15	v2.19		<a href="#">Download(Cores)</a>
250121_0 whql	v2.147	v2.15	v2.19		<a href="#">Download(Cores)</a>
240711_1 whql	v2.135	v2.10	v2.11	<a href="#">package</a>	<a href="#">Download(Cores)</a>
240705_1 whql	v2.132	v2.10	v2.11		<a href="#">Download(Cores)</a>
240703_0 whql	v2.131	v2.10	v2.11		<a href="#">Download(Cores)</a>
240626_0 whql	v2.131	v2.10	v2.10		<a href="#">Download(Cores)</a>
240621_0 whql	v2.129	v2.10	v2.10		<a href="#">Download(Cores)</a>
240612_0 whql	v2.128	v2.10	v2.10		<a href="#">Download(Cores)</a>
240610_0 whql	v2.127	v2.10	v2.10		<a href="#">Download(Cores)</a>
240605_1 whql	v2.126	v2.10	v2.10		<a href="#">Download(Cores)</a>
240528_1 whql	v2.122	v2.10	v2.10		<a href="#">Download(Cores)</a>
240528_0 whql	v2.121	v2.10	v2.10		<a href="#">Download(Cores)</a>

Ver.	Firmware	Driver	DLL	Package	Cores
240523_0 whql	v2.120	v2.10	v2.10		<a href="#">Download(Cores)</a>
240521_0 whql	v2.119	v2.10	v2.10		<a href="#">Download(Cores)</a>
240517_0 whql	v2.118	v2.10	v2.10		<a href="#">Download(Cores)</a>
240510_0 whql	v2.117	v2.7	v2.9.2		<a href="#">Download(Cores)</a>
240503_0 whql	v2.116	v2.7	v2.9.2		<a href="#">Download(Cores)</a>
240430_0 whql	v2.115	v2.7	v2.9.2		<a href="#">Download(Cores)</a>
240423_1 whql	v2.113	v2.7	v2.9.2		<a href="#">Download(Cores)</a>
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>
<b>ComilDE v1.11</b> 240223_0				(	-ComilDE v1.11 )
240207_0 whql	v2.100	v2.6.5	v2.7		<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="#">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="#">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>
<b>PCI Express</b>				가	
<b>230523_1 whql (Stable)</b>	v2.83	v2.5.1.0	v2.5.3.0	<b>Package</b>	<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>
<b>ComilDE v1.9</b>				<b>Config</b>	( OP 가)
2022.06.07	v2.42			-	<a href="#">Download (Cores)</a>
2022.03.15	v2.39			-	<a href="#">Download (Cores)</a>

Ver.	Firmware	Driver	DLL	Package	Cores
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			Download(Package)	<a href="#">Download (Cores)</a>
2021.01.05	v2.5			Download(Package)	Download (Cores)
2020.11.25	v2.3			Download(Package)	<a href="#">Download (Cores)</a>
2020.11.23	v2.2			Download(Package)	<a href="#">Download (Cores)</a>
2020.11.06	v2.1			Download(Package)	<a href="#">Download (Cores)</a>
2020.09.21	v2.0			<a href="#">Download(Package)</a>	<a href="#">Download (Cores)</a>
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
250214_0 whql	v3.6	v3.0.1	v3.0.4		<a href="#">Download(Cores)</a>
240711_0 whql	v3.5	v3.0.1	v3.0.3		<a href="#">Download(Cores)</a>
240619_0 whql	v3.3	v3.0.1	v3.0.3		<a href="#">Download(Cores)</a>
240614_0 whql	v3.2	v3.0.1	v3.0.3		<a href="#">Download(Cores)</a>
240401_0 whql	v3.1	v3.0.1	v3.0.3		<a href="#">Download(Cores)</a>
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	<b>ComiIDE</b>	<b>Config</b>	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)

F2.71_L2.5.9.0_2.5.8.0	2025.11.19		<a href="#">Download(Cores_251119_0)</a>
F2.68_L2.5.9.0_D2.5.7.0	2023.04.11		<a href="#">Download(Cores_230411_0)</a>
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>	
<b>ComilDE v1.9.0.0</b>		<b>Config</b>	( 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	v.1.1.0.0	-	<a href="#">Download (Cores)</a>
210225				<a href="#">Download(Package)</a>	<a href="#">Download (Cores)</a>

## EtherCAT SBC

Ver.	Firmware	Driver	DLL	Package	Cores
251107)0 whql	v2.167	2.15.1	2.29	<a href="#">Package</a>	<a href="#">Download(Cores))</a>
240715_0 whql	v2.135	v2.10.1	v2.11		<a href="#">Download(Cores)</a>

Ver.	Firmware	Driver	DLL	Package	Cores
240703_0 whql	v2.128	v2.10.1	v2.10		<a href="#">Download(Cores)</a>
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#	2024.05.17	EtherCAT_Examples_CSharp (1.0.1.2)	<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>
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# 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](#)

v1.0.0.1 (21.07.15)

- 1. DC-Sync EEPROM (0E → EE)

v1.0.0.2 (22.04.21)

- 1. LX558 가

v1.0.0.3 (22.10.24)

- 1. LX559 가

### COMIZOA\_ETS Version History

#### v1.0.0.1 (21.01.27)

- 1. ETS-DO16N-E / EEPROM

#### v1.0.0.2 (21.03.03)

- 1. ETS-DO16N-HM DO H/W  
EEPROM

#### v1.0.0.3 (21.04.01)

- 1. ETS-DOORLOCK-HM 가

#### v1.0.0.4 (21.07.15)

- 1. ETS-AI04RnT-E 가
- 2. ETS-D3208A0800 가

#### v1.0.0.5 (21.08.26)

- 1. ETS-AI08VH-HM Value Type 가
- 2. ETS-AI08IH-HM Value Type 가

#### v1.0.0.6 (21.09.07)

- 1. ETS-AI08IH-HM Value Type 가

#### v1.0.0.7 (21.09.15)

- 1. ETS-DO16N ConfigData

#### v1.0.0.8 (21.10.14)

- 1. ETS-MT02H

#### v1.0.0.9 (21.12.06)

- 1. ETS-DO04R PDO ConfigData

#### v1.0.1.0 (24.05.31)

- 1. ETS Slave Enhanced Link Detection ALL OFF

### COMIZOA\_SES Version History

v1.0.0.1 (21.12.21)

- 1. ETCH-PB, ETCH-EXT 가

v1.0.0.2 (22.02.18)

- 1. TMC-DI16 가

v1.0.0.3 (24.05.31)

- 1. Enhanced Link Detection ALL OFF

COMIZOA\_KES Version History

v1.0.0.5 (24.01.29)

- KES-PU,LU,CL,CLM,KIT AIO Filter 가

v1.0.0.6 (24.04.17)

- Flashwork Subindex

COMIZOA\_OHT Version History

v1.0.0.1 (21.07.21)

- 1. OHT-STEP-X1E 가

v1.0.0.2 (21.10.25)

- 1. OHT-STEP-X1E 0x1600 DataType

## 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.	
250917_0	<b>2.167</b>	2.15	<b>2.29</b>	- : FoE - : HotConnect CSA Renew CRC 가
250909_0	<b>2.166</b>	2.15	2.28	- : PDO Follow Mode Feedback Cmd 가
250903_0	2.165	2.15	<b>2.28</b>	- : OS Memory Leak Driver BSOD
250808_1	<b>2.165</b>	2.15	2.27	- : MTU Config Board (FW v2.161) )
250808_0	<b>2.164</b>	2.15	<b>2.27</b>	- : OSize Assignment Config - : PDO Map Timeout (OP ) - : Vender ODM Slave OP - : SDO R/W Subidx 가
250709_0	<b>2.163</b>	2.15	<b>2.26</b>	- : Hot Connect 가 - : Firmware Verify Only 가 - : ecaiGetChanVal_L() - : ALStatus Error 가 (4Xh DC_NOT_WORKING) - : DC 가 (DC SafeOP 가) - :
250605_0	<b>2.162</b>	2.15	<b>2.25</b>	- : 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	<b>2.160</b>	2.15	<b>2.24</b>	- : DLL (VC10→VC22) - : NetInfo 가 - : ecmLmSt_GetQueltemCounts() 가
250430_0	<b>2.159</b>	2.15	<b>2.23</b>	- : PossCorr PDO Follow 가

Cores Ver.	FW.	Drv.	DLL.	
250411_0	<b>2.158</b>	2.15	<b>2.22</b>	- : Frequency Inverter 가
250408_0	<b>2.157</b>	2.15	2.21	- : Statemachine 가 - : AL Status
250401_1	<b>2.156</b>	2.15	<b>2.21</b>	- : AL Status, DC Setup
250328_0	<b>2.155</b>	2.15	2.20	- : 가 / - : 가 /
250327_2	<b>2.154</b>	2.15	2.20	- : 가
250327_0	<b>2.153</b>	2.15	2.20	- : 가 OPDrop (Drop ) - : 가 AL Status Code ( / Slave 1 ) - : OP ( / 10 ) - : MST/MODE ( / 0.2 ) - : hex ( h)
250324_0	2.152	2.15	<b>2.20</b>	- : x64 OS event type CMP callback handler dll crash
250320_0	<b>2.152</b>	2.15	2.19	- : Onboard CMP Feedback 가
250311_0	<b>2.151</b>	2.15	2.19	- : LX554 onboard CMP
250212_0	<b>2.150</b>	2.15	2.19	- : CMD 1 (fw v2.120 )
250210_0	<b>2.149</b>	2.15	2.19	- : Servo Home ( ) Servo Home Start Delay )
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 )

Cores Ver.	FW.	Drv.	DLL.	
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
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 DISCONNECT SafeOP )
240604_1	<b>2.124</b>	2.10	2.10	- : Disconnect, OP (Physical ID 0x0 )
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 )

Cores Ver.	FW.	Drv.	DLL.	
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
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

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

Cores Ver.	FW.	Drv.	DLL.	
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
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

Cores Ver.	FW.	Drv.	DLL.	
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
-	-	-	-	<b>Config</b> 1.10.5 <b>ComilDE</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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