

EtherCAT

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

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

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)

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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)

Ver.	Firmware	Driver	DLL	Package	Cores
240612_0 whql	v2.128	v2.10	v2.10		Download(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)

Ver.	Firmware	Driver	DLL	Package	Cores
2019.10.24	v1.82			Download	
2019.10.07	v1.80			Download	
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
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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](#)

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	download
CMC	-	Cmc_TestApp	download
PUMP	2019.06.12	examples_manual	Download
PUMP	2020.01.08	ses_pump	Download
IDE_Temp	2022.01.07	ComiIDE.v1.6.2.6	ComiIDE v1.6.2.6

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)
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)

Cores Ver.	FW.	Drv.	DLL.	
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
240626_0	2.131	2.10	2.10	- : LM Arc - : ELMO Drive OP
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 , DISCONNECT SafeOP)
240604_1	2.124	2.10	2.10	- : Disconnect, OP (Physical ID 0x0 가)
240528_1	2.122	2.10	2.10	- : DISCONNECT Slave

Cores Ver.	FW.	Drv.	DLL.	
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, InTlme) - : 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
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)

Cores Ver.	FW.	Drv.	DLL.	
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
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)

Cores Ver.	FW.	Drv.	DLL.	
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
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	-

Cores Ver.	FW.	Drv.	DLL.	
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
-	-	-	-	1.10.5 ComiIDE Config
231102_0	2.94	2.6.4.0	2.6.5.0	- : MultiPacket

2.42	2.3.1.0	2.3.4.0	- Slave 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
			opdrop		
2.11	2.0.0.3	2.0.1.3	Dio Multi	32	
			8	Multi	
2.09	2.0.0.3	2.0.1.2	S-Curve		
			Helical Ix Override		
			Helical ListMotion		
2.08	2.0.0.3	2.0.1.2	EL	EL	Stop 27.4
			HomeOffset Unitdistance		
			S-Curve		
			ListMotion Stop		
2.07	2.0.0.3	2.0.1.2	S-Curve	workspeed compensation	
2.06	2.0.0.3	2.0.0.6	HelicalEx	가	
2.05	2.0.0.3	2.0.0.5	List Motion Stop		
2.04	2.0.0.3	2.0.0.5			
2.03	2.0.0.3	2.0.0.4	ComiEcatLibCfg.ini		
2.03	2.0.0.3	2.0.0.3	HOME	Settling time,	command
			ESCD Config		
2.02	2.0.0.1	2.0.0.2	BSOD(0x1D)		
			DC-Sync Interrupt		
2.01	2.0.0.0	2.0.0.1	DIO Local		SlvPhysAddr
2.01	2.0.0.0	2.0.0.0	DPRAM Interface		
			Push/Pop Assembly	가	
2.00	2.0.0.0	2.0.0.0	LmDO	(FW→DLL)	

1.99	1.5.0.7	1.5.4.5	Queue	MailBox	가
1.98	1.5.0.7	1.5.4.5	Ptm_Begin, Ptm_RemCount, PtmSt_GetRunSts DC-Sync Offset		
1.97	1.5.0.7	1.5.4.2	Ix ListMotion	INP	가
1.95	1.5.0.7	1.5.4.2	ListMotion DO		가
1.94	1.5.0.6	1.5.3.3	121	가 (Z)
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
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 ~)
			v1.76 ~)	Slave	Disconnect (FW
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
			(2 가)		가
1.75	1.5.0.1	1.5.0.6	HomeOffsetEx 가		
			가 ecmGn_InitFromFile		
1.72	1.5.0.1	1.5.0.4	Jerk Profile_Velocity 가		
			Jerk Profile_Time		가
1.71	1.5.0.1	1.5.0.3	CKD 1) 가		

1.70	1.5.0.1	1.5.0.2	가
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