



# 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
<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
250401_1 whql	v2.156	v2.15	v2.21	<a href="#">package</a>	<a href="#">Download(Cores)</a>
250212_0 whql	v2.150	v2.15	v2.19	<a href="#">package</a>	<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="#">package</a>	<a href="#">Download(Cores)</a>
240711_1 whql	v2.135	v2.10	v2.11		<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="#">package</a>	<a href="#">Download(Cores)</a>

Ver.	Firmware	Driver	DLL	Package	Cores
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="#">package</a>	<a href="#">Download(Cores)</a>
240528_0 whql	v2.121	v2.10	v2.10		<a href="#">Download(Cores)</a>
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="#">package</a>	<a href="#">Download(Cores)</a>
240430_0 whql	v2.115	v2.7	v2.9.2	<a href="#">package</a>	<a href="#">Download(Cores)</a>
240423_1 whql	v2.113	v2.7	v2.9.2	<a href="#">package</a>	<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="#">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>



Ver.	Firmware	Driver	DLL	Package	Cores
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)

F2.67_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>ComiIDE 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
240715_0 whql	v2.135	v2.10.1	v2.11		<a href="#">Download(Cores)</a>
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](#)

Version 2

Cores Ver.	FW.	Drv.	DLL.	
250401_1	<b>2.156</b>	2.15	<b>2.21</b>	- : AL Status, DC Setup

Cores Ver.	FW.	Drv.	DLL.	
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 )
240913_2	<b>2.140</b>	<b>2.15</b>	<b>2.14</b>	- : Bootcomplete DSP (Datasync ) - : Express Type PDO ( PCI/Ex 가)

Cores Ver.	FW.	Drv.	DLL.	
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 OP - : ELMO Drive
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) Packet (Config Packet)
240605_1	<b>2.126</b>	2.10	2.10	- : SCAN (DISCONNECT SafeOP), DISCONNECT
240604_1	<b>2.124</b>	2.10	2.10	- : Disconnect, OP (Physical ID 0x0 가)
240528_1	<b>2.122</b>	2.10	2.10	- : DISCONNECT Slave
240528_0	<b>2.121</b>	2.10	2.10	- : DISCONNECT, CONNECT - : Physical Address 0
240523_0	<b>2.120</b>	2.10	2.10	- : UnitDist
240521_0	<b>2.119</b>	2.10	2.10	- : Core Interface - : BitSequence RunState (240517_0)
240517_0	<b>2.118</b>	<b>2.10</b>	<b>2.10</b>	- : Sweep Override Stop - : SmartMoveTo() Stop 가 - eaERR_MOT_SEQ_SKIPPED_BACKWARD(-21061) - : , DSP  - : Override(Smart[V]Move[To]), Stop - : GetMotState - SubErrCode 가 - ecERR_MOT_CTRL_ALARM(-1011) - ecERR_MOT_ETC(-1012) - : ODM IN_WAIT Status 가 (SmartMove, SweepOverride, InTlme) - : 가 (Move, Stop, Override, SpeedPattern, ServoOn)
240510_0	<b>2.117</b>	2.7	2.9.2	- : FW 가 (Home, SmartMove, StopCompt)
240503_0	<b>2.116</b>	2.7	2.9.2	- : OverrideSpd ( -21060 )
240430_0	<b>2.115</b>	2.7	2.9.2	- : State Machine fw down - : All Disconnect
240423_1	<b>2.113</b>	2.7	2.9.2	- : Init→PreOP

Cores Ver.	FW.	Drv.	DLL.	
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
230914_0	<b>2.89</b>	2.6.4.0	<b>2.6.2.0</b>	- : ReleaseNote 가 (md) - : ( 가) - : ODM (SmartVMoveStart ) 가
230822_1	<b>2.87</b>	2.6.4.0	<b>2.6.1.0</b>	- : 230718_0 Raw[In/Out] PDO

Cores Ver.	FW.	Drv.	DLL.	
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
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

Cores Ver.	FW.	Drv.	DLL.	
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

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

Cores Ver.	FW.	Drv.	DLL.	
231114_0	3.0	3.0	3.0	- : ( Config ) - : LX553 PDO
-	-	-	-	Config 1.10.5 ComilDE
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	
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

<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
<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
<b>1.70</b>	1.5.0.1	<b>1.5.0.2</b>	가

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