

EtherCAT

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EtherCAT PCI

Stable (,)

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

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Ver.	Firmware	Driver	DLL	Package	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)

ComiIDE v1.11 (-ComiIDE v1.11 240223_0)

240207_0 whql	v2.100	v2.6.5	v2.7	Package	Download(Cores)
240201_0 whql	v2.99	v2.6.5	v2.6.7		Download(Cores)
240130_0 whql	v2.98	v2.6.5	v2.6.7		Download(Cores)
240126_0 whql	v2.97	v2.6.5	v2.6.7		Download(Cores)
240123_0 whql	v2.96	v2.6.5	v2.6.7		Download(Cores)
240119_0 whql	v2.95	v2.6.5	v2.6.7		Download(Cores)
240116_0 whql	v2.94	v2.6.5	v2.6.7		Download(Cores)
231218_0 whql	v2.94	v2.6.5	v2.6.6	Package	Download(Cores)
231102_0 whql	v2.94	v2.6.4.0	v2.6.5.0		Download(Cores)
231026_0 whql	v2.93	v2.6.4.0	v2.6.5.0	Package	Download(Cores)
230927_0 whql	v2.91	v2.6.4.0	v2.6.4.0		Download(Cores)
230920_0 whql	v2.90	v2.6.4.0	v2.6.3.0		Download(Cores)
230914_0 whql	v2.89	v2.6.4.0	v2.6.2.0		Download(Cores)
230713_0 whql	v2.83	v2.6.0.0	v2.5.3.0		Download(Cores)

PCI Express 가

230523_1 whql (Stable)	v2.83	v2.5.1.0	v2.5.3.0	Package	Download(Cores)
230519_0 (TestSigned)	v2.83	v2.5.0.0	v2.5.3.0		Download(Cores)
230516_0 (TestSigned)	v2.82	v2.5.0.0	v2.5.2.0		Download(Cores)
230508_0 (TestSigned)	v2.82	v2.5.0.0	v2.5.2.0		Download(Cores)
230503_0 (TestSigned)	v2.82	v2.5.0.0	v2.5.1.0		Download(Cores)
230410_0 (TestSigned)	v2.81	v2.5.0.0	v2.5.1.0		Download(Cores)
230406_0 (TestSigned)	v2.80	v2.5.0.0	v2.5.0.0		Download(Cores)
230321_0 (TestSigned)	v2.79	v2.5.0.0	v2.5.0.0		Download(Cores)
230223_0	v2.76	v2.4.3.0	v2.4.12.0	-	Download(Cores)
2022.09.26	v2.62				Download(Cores)

ComiIDE v1.9 Config (OP 가)

2022.06.07	v2.42			-	Download (Cores)
2022.03.15	v2.39			-	Download (Cores)
2021.12.14	v2.27			Download(Package)	Download (Cores)

Ver.	Firmware	Driver	DLL	Package	Cores
2021.04.05	v2.11			Download(Package)	Download (Cores)
2021.02.26	v2.7			Download(Package)	Download (Cores)
2021.01.05	v2.5			Download(Package)	Download (Cores)
2020.11.25	v2.3			Download(Package)	Download (Cores)
2020.11.23	v2.2			Download(Package)	Download (Cores)
2020.11.06	v2.1			Download(Package)	Download (Cores)
2020.09.21	v2.0			Download(Package)	Download (Cores)
2020.08.05	v1.98			Download(Package)	Download (Cores)
2020.06.17	v1.97			Download(Package)	Download (Cores)
2020.04.27	v1.94			Download(Package)	Download (Cores)
2020.03.18	v1.92			Download	Download (Cores)
2020.03.18	v1.91			Download	
2020.01.11	v1.88			Download	Download (Cores)
2020.01.08	v1.87			Download	
2020.01.07	v1.87			Download	
2019.11.27	v1.84			Download	
2019.10.24	v1.82			Download	
2019.10.07	v1.80			Download	
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
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	ComilDE	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	
ComilDE 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	v1.1.0.0	-	Download (Cores)
210225				Download(Package)	Download (Cores)

EtherCAT SBC

Ver.	Firmware	Driver	DLL	Package	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	ComilIDE.v1.6.2.6	ComilIDE v1.6.2.6

Version 2

Cores Ver.	FW.	Drv.	DLL.	
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)
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 가 - : OP 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	-
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)
-	-	-	-	ComilIDE 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.	
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 ComilIDE 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 SIVPhysAddr
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)
			가
1.93	1.5.0.6	1.5.3.3	ecSiv_SetEscWDT_A()
			DIR
1.92	1.5.0.6	1.5.4.1	Driver Digital Output 가
1.92	1.5.0.6	1.5.3.2	가 Disconnect
			In / Out Port DLL Crash
			InitOutPDOData BSOD
			Driver 가
			In / Out Port 가
			LMSpdRatio 가
			Driver TimeStamp 가
			IDE Scan / Down DC Delay
1.88	1.5.0.5	1.5.1.9	Single Turn Overflow Position Reset 가
1.87	1.5.0.3	1.5.1.8	BSOD (0xD1)
1.84	1.5.0.1	1.5.1.5	ZVIS ()
			RingCounter_Absoulte
			27.4 (FW v1.76 ~)
			Slave Disconnect (FW v1.76 ~)
1.82	1.5.0.1	1.5.1.3	RDP 가
1.80	1.5.0.1	1.6.0.0	MasterCMP Manual Output 가
			MasterCMP DO Output 가
1.76	1.5.0.1	1.5.0.8	가
			(Redundancy)
			() 가
			() 가
			가
			Jerk Mode 가
1.75	1.5.0.1	1.5.0.6	(2 가) 가
			HomeOffsetEx 가
			가
1.72	1.5.0.1	1.5.0.4	ecmGn_InitFromFile
			Jerk Profile_Velocity 가
			Jerk Profile_Time 가
			CKD
1.71	1.5.0.1	1.5.0.3	1) 가
1.70	1.5.0.1	1.5.0.2	가

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