

# EtherCAT Master Classes



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KPA Names	Basic	Standard*
ETG.1500, Version 1.0.0	Class B	Class A
<b>Basic Features</b>		
Service Commands	✓	✓
Slaves with Device Emulation	✓**	✓**
EtherCAT State Machine	✓	✓
Error Handling	✓	✓
EtherCAT Frame Types	✓	✓
<b>Process Data Exchange</b>		
Cyclic PDO	✓	✓
Multiple Tasks = Leveling	✓	✓
<b>Network Configuration</b>		
Reading ENI	✓	✓
Compare Network configuration	✓	✓
Access to EEPROM	✓	✓
Access to Memory	✓	✓
<b>Mailbox Support</b>		
Support Mailbox	✓	✓
Mailbox polling	✓	✓
<b>CoE</b>		
SDO Up/Download	✓	✓
Segmented Transfer	✓	✓
Complete Access	✓	✓
SDO Info Service	✓	✓
Emergency Messages	✓	✓
<b>EoE</b>		
EoE Protocol	✓	✓
Virtual Switch	✓	✓
<b>FoE</b>		
FoE Protocol	✓	✓
Firmware Up/Download	✓	✓
Boot State	✓	✓
<b>SoE</b>		
<b>AoE</b>		
<b>VoE</b>		
<b>Synchronization with Distributed Clock (DC)</b>		
DC Support		✓
Continuous Propagation Delay compensation		✓
Time Distribution	✓	✓
Synchronization of Master with Slaves		✓
<b>Slave-to-Slave Communication</b>		
Necessary for FSoE configuration via ENI or via API	✓	✓

\* applies also for KPA Master Class Premium

\*\*not a Master feature: is supported by mean of Init commands generated by Studio

KPA Quality Management System is certified according to DIN EN ISO 9001:2008

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