

CANopen Communication Stack Comparison

Feature	MicroCANopen	MicroCANopen Plus	MicroCANopen Classic
All CANopen baud rates supported	✓	✓	✓
Network Management state machine with autostart option	✓	✓	✓
Heartbeat producer, [1017H]	✓	✓	✓
Heartbeat consumer, [1016H]		✓	✓
Node Guarding responses		✓	✓
Setup via hard-coding in program	✓	✓	✓
Setup via CANopen Task Setup File (read/write to [1F50H])			✓
Object Dictionary support for data types of up to 4 bytes (expedited SDO transfer)	✓	✓	✓
Object Dictionary support for any data type		Segmented	Segmented and Block
PDO default configuration can be hard-coded	✓	✓	✓
Dynamic PDO Communication Parameters		✓	✓

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(write to [14xxH] and [18xxH] allowed)			
Dynamic PDO Mapping Parameters (write to [16xxH] and [1AxxH] allowed)			✓
Store PDO parameters in non-volatile memory ([1010H], [1011H] and [1020H])		✓	✓
TPDO Trigger by Event Time	✓	✓	✓
TPDO Trigger by COS with Inhibit Time	✓	✓	✓
TPDO Trigger by SYNC		✓	✓
TPDO Trigger by RTR			✓
Emergency Producer, [1014H] and [1015H]		✓	✓
Emergency Consumer, [1028H]			✓
Layer-Setting Services		Regular and FastScan	Regular
SDO Client		With optional Manager Add-On	✓
Implements NMT Master		With optional Manager	✓

Feature	MicroCANopen	MicroCANopen Plus	MicroCANopen Classic
		Add-On	
Common CAN driver interface		✓	✓
Flexible integration into RTOS		✓	✓
Maximum number of PDOs	8	1024	1024
Maximum size of process image storing all data that can be mapped to PDOs (in bytes)	254	65,534	65,534
Smallest timer tick resolution available	1ms	1ms	100us
Minimal SDO Manager			✓
DS447 Car Add On Devices Support		With optional DS447 Add-On	
Error and Emergency History, [1003H]		✓	



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