**Module -- Dbkom**

[1 References 2](#_Toc363574295)

[2 Configuration Settings 2](#_Toc363574296)

[2.1 Il\_Dbkom Configuration 2](#_Toc363574297)

[2.2 Tx Messages 2](#_Toc363574298)

[3 Known Issues / Limitations With Configuration 3](#_Toc363574299)

[4 Revision Control Log 4](#_Toc363574300)

# References

1. DBKOM Technical Reference v2.08.00 ([TechnicalReference\_DBKOM\_2\_xx.pdf](../../../../../../../Vector/CBD1210021_D01_Tmsx70/external/Doc/TechnicalReferences/TechnicalReference_DBKOM_2_xx.pdf))
2. TMS570LS Series Microcontroller Technical Reference Manual (TMS570 Tech Ref\_spnu489.pdf)

# Configuration Settings

## Il\_Dbkom Configuration

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Value** | **Rationale** |
| Configurable Options | | |
| User Config File | None | Default setting |
| Write access to rx buffer | | |
| Byte | No | Default setting |
| Word | No | Default setting |
| nByte | No | Default setting |
| Timing parameters | | |
| Start Delay Time Area [ms] | 200 | Default setting |
| Channel0 | | |
| TxCycle | 2 | 2ms is a common factor of the transmission rates 10ms and 100ms and also ensures that the message trigger jitter is less than the required +/- 5ms. |
| RxCycle | 10 | Default setting |
| Transceiver Settings | | |
| Transceiver Config File | None | Default setting |

## Tx Messages

### D\_RS\_EPS

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Value** | **Rationale** |
| D\_RS\_EPS | | |
| Generate | Yes | Default setting |
| Start delay time [ms] | n/a |  |
| ECU\_APPL\_EPS | | |
| Generate | Yes | Default setting |
| Start delay time [ms] | n/a |  |
| EPS\_1 | | |
| Generate | Yes | Required tx message |
| Start delay time [ms] | 0 | Arbitrarily set to 0, however, the time between this 10ms cyclic message and the EPS\_A1 100ms cyclic message must be greater than 2 ms. |
| EPS\_A1 | | |
| Generate | Yes | Required tx message |
| Start delay time [ms] | 4 | 5ms offset is the optimal spacing for offsetting this message from EPS\_1. The current system tick is 2ms, so 4ms was selected. 4ms provides a guaranteed 2ms message spacing even under extreme jitter. |
| NM\_EPS | | |
| Generate | Yes | Default setting |
| Start delay time [ms] | n/a |  |
| SD\_RS\_EPS | | |
| Generate | Yes | Default setting |
| Start delay time [ms] | 0 | Default setting |

# Known Issues / Limitations With Configuration

1. The configuration is only partially documented due to lack of time.

# Revision Control Log

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item #** | **Rev #** | **Change Description** | **Date** | **Author Initials** |
| 1 | 1.0 | Initial Creation | 30JUL13 | JJW |
|  |  |  |  |  |