

Sommario

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DEVICE QMOS

1. Parameters list

1.1 osmode

Short description	Operative system state
Dimension	Byte
Default value	-
Access type	Read
Unit measure	-
Valid range	0÷5
Parameter ID	-
Write conditions	-

Description:

Reflects the operative system state. Where:

- 0 = OSINI (Initialization)
 - 1 = OSRES (Reset)
 - 2 = OSRDY (Ready)
 - 3 = OSRUN (Run)
 - 4 = OSSTP (Stop)
 - 5 = OSERR (Error)
-

1.2 oserr

Short description	Operative system error code
Dimension	Byte
Default value	-
Access type	Read
Unit measure	-
Valid range	0÷10
Parameter ID	-
Write conditions	-

Description:

Reflects the operative system error code. Where:

- 1 = OSBUSER (Bus Error)
- 2 = OSCKSER (CheckSum Error)
- 3 = OSIDXOB (Index Out of Bound)
- 4 = OSPRGOR (Program Over Range)
- 5 = OSSTPOR (Step Over Range)
- 6 = OSDVZER (Division By Zero)
- 7 = OSSTXER (Syntax Error)
- 8 = OSWDGER (WatchDog Error)
- 9 = OSSTKER (Stack Error)
- 10 = OSFLHER (Flash error)

1.3 osflags

Short description	Operative system flags
Dimension	Byte
Default value	-
Access type	Read
Unit measure	-
Valid range	-
Parameter ID	-
Write conditions	-

Description:

Reflects the operative system internal flags. Where:

- bit 0 (LSB) TSKWDER (Task Watchdog Error)
 - bit 1 BATTERY (wrong battery)
 - bit 2 BKDIS (backup disabled)
 - bit 3 TTASKLOST (timed task list)
 - bit 4 BKNEW (new backup procedure)
 - bit 5 BKPRESENT (backup present)
 - bit 6 BKVALID (backup valid)
 - bit 7 (MSB) empty
-

Name	D	R	A	Description
systimeh	L	-	R	Show the system timer LONG_H that has resolution 1 msec.
systemel	L	-	R	Show the system timer LONG_L that has resolution 1 msec.
taskmedtime	L	-	R	Indicates the average time of your program's execution (tenths of a msec.)
taskmaxtime	L	-	R	Indicates the maximum execution time of the program (tenths of a msec.)
taskmintime	L	-	R	Indicates the minimum execution time of the program (tenths of a msec.)
sizeapp	L	-	R	Indicates the size of the QCL application (bytes) stored in flash
sizeret	L	-	R	Indicates the size of the retentive memory used (bytes)
memfree	L	-	R	Indicates the amount of volatile memory (bytes) still available
sys001 ... sys016	L	-	R-W	System variables
frwname01 ... frwname09	B	-	R	Bootloader: firmware identification string
frwversion	B	-	R	Bootloader: firmware version
frwmajrel	B	-	R	Bootloader: firmware major release
frwminrel	B	-	R	Bootloader: firmware minor release
frwhwid	L	-	R	Bootloader: firmware hardware ID
frwcks	L	-	R	Bootloader: firmware checksum
frwuvalue01 ... frwuvalue10	L	-	R	Bootloader: user value
fwxversion	B	-	R	Support external controller firmware version
fwxmajrel	B	-	R	External controller firmware support major release
fwxminrel	B	-	R	External controller firmware support minor release
temperature	B	-	R	Internal temperature expressed in °C
par01	L	-	R-W	Parameter for future use
par02	L	-	R-W	Parameter for future use
par03	L	-	R-W	Parameter for future use
par04	L	-	R-W	Parameter for future use
par05	L	-	R-W	Parameter for future use

1.4 States table

Name	D	R	A	Descriptionm
st_backup	F	-	-	Indicates that there is a valid backup
st_01	F	-	-	State for future use
st_02	F	-	-	State for future use
st_03	F	-	-	State for future use
st_04	F	-	-	State for future use
st_05	F	-	-	State for future use

1.5 Commands table

Name	D	R	A	Description
RESTART	F	-	W	Restart of the system.
BACKUP	F	-	W	Start the backup procedure (if present)
RESTORE	F	-	W	Start the application restore procedure (if present)
CMD01	F	-	W	Command for future use
CMD02	F	-	W	Command for future use
CMD03	F	-	W	Command for future use
CMD04	F	-	W	Command for future use
CMD05	F	-	W	Command for future use

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