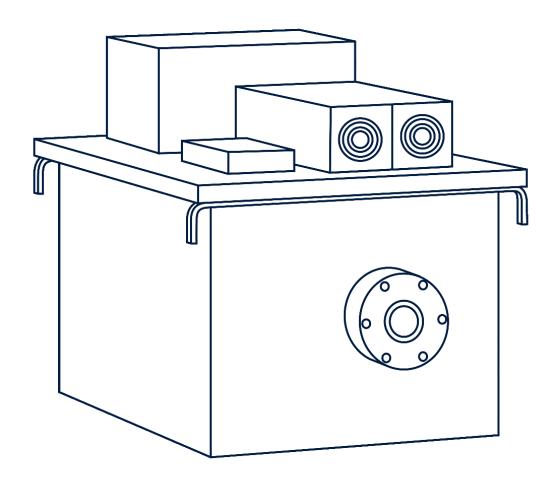
Integrator manual

T3 Status LED

Details of status signaling through LED





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Content

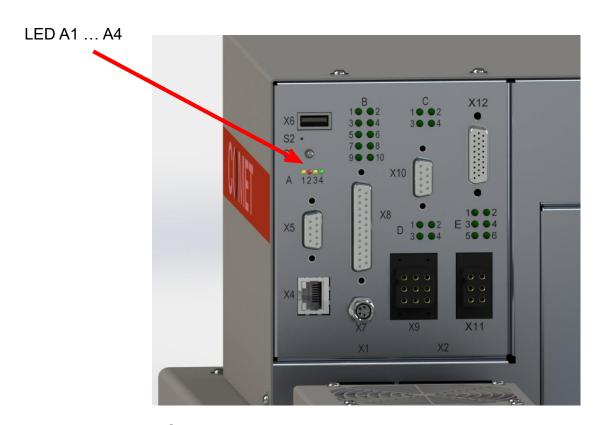
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T3 Status LED Description Manual

1 Introduction

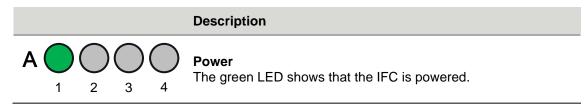
This document describes the status LEDs in the system. There are four LEDs on the Interface-Controller and four LEDs on each Powercell to show the actual state on the components.

2 Interface Controller (IFC)



2.1 LED A1: Power Status

The LED A1 cannot be changed has it is connected to Supply Voltage.



2.2 LED A2: User Space Status

The purpose of this LED is to show the status of the applications and indicates to the user if the applications could be started correctly or not.

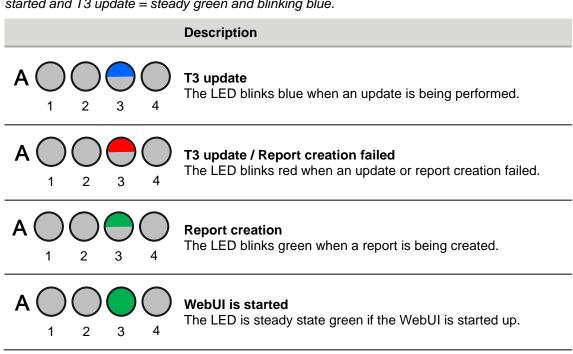
NOTE: This LED is an RGB-LED and may show different states at the same time.

Description **Booting in Normal Operation** When the system is booting in normal operation, the LED A2 4 blinks green. 2 3 **Booting Special Mode** When the system is booting in special mode (initial-setup / update), the LED A2 blinks blue. 2 3 Boot Failed / Severe Error When the system couldn't boot correctly or at a detected severe operating error: the LED A2 blinks red (5Hz @ boot error of the basics) 2 3 the LED A2 blinks red (2Hz @ general boot error) the LED A2 blinks red (1Hz @ severe error present) **Boot Success** When the system could boot correctly, the LED A2 is turned green. 1 2 3

2.3 LED A3: User Feedback

The purpose of this LED is to give a feedback to the user when he requests an operation to be done on the IFC e.g. by using the buttons S1 or S2 or other triggers.

NOTE: This LED is an RGB-LED and may show different states at the same time, e.g. WebUi is started and T3 update = steady green and blinking blue.



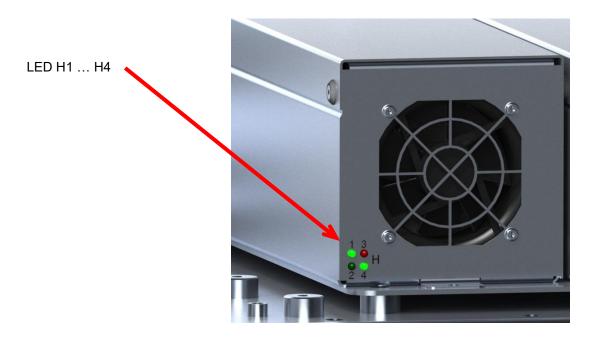
2.4 LED A4: Linux Kernel Status

The purpose of this LED is to show the kernel status.

NOTE: This LED is an RGB-LED and may show different states at the same time.

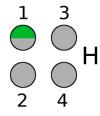
Description CPU Supervision The LED blinks blue when the CPU is woken up. 2 3 **Kernel Heartbeat** The LED blinks green to show the kernel heartbeat. Faster it 2 3 blinks, more the CPU is loaded. Invalid date time When the system date and time is invalid, the LED blinks red (at 1 2 3 4 10Hz).

3 Powercell (POC)



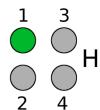
3.1 LED H1: CAN Run Status

Description



Stopped / Pre-Operational / Firmware Download

- CAN Communication State Stopped: LED is only flashing from time to time.
- CAN Communication State Pre-Operational: LED is blinking.
- Firmware download: LED is blinking.



Operational

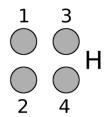
The LED is on if CAN communication is operational.

3.2 LED H2: Configuration Status

Description H No Configuration POC has no configuration. H Invalid Configuration POC has an invalid configuration. H Configuration Ok POC has a valid configuration. Is ready for running.

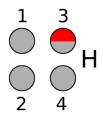
3.3 LED H3: CAN Error Status

Description



CAN Ok

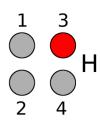
CAN communication is okay.



CAN Error

CAN communication does have an error.

Note: LED is blinking also during the start-up of system a short while as long as IFC is booting. This is a normal behavior.



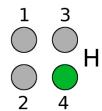
CAN Bus Off

The LED is on if CAN bus is off.

3.4 LED H4: Power Status

Software cannot change LED H4 as it is connected to auxiliary Power.

Description



Power

The LED shows that POC has power.

Europe & RoW

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