Current Measurements
There are five Buck DC/DC converters related to the PMIC on the iMX7 Dual uCOM Board. It is possible to measure the output current on each of these five converters. Replace the zero ohm resistors with suitable values (50 or 100 milliohm resistors) to measure the current.

Note that modifying the board voids all warranty. The PCB is complex and advanced. Be very careful when soldering (replacing the resistors). The PCB can easily be damaged by importer soldering.

The picture below illustrates the locations of the current measurement resistors that must be modified.

Figure 1 – iMX 7Dual uCOM Board, Top Side Photo

Location of zero ohm resistors (0603 size)
BUCK5: 3.3V, Powers internal and external 3.3V supplies on the board. Powers VDD_IO on boards with 3.3V I/O boards.

Location of zero ohm resistors (0603 size)
BUCK2: typically 1.0V, Powers the SOC supply of the i.MX 7D.

Location of zero ohm resistors (0603 size)
BUCK4: 1.2V, One supply to LPDDR3 memory

Location of zero ohm resistors (0603 size)
BUCK3: 1.8V, Powers internal and external 1.8V supplies on the board. Powers VDD_IO on boards with 1.8V I/O boards.

Location of zero ohm resistors (0603 size)
BUCK1: typically 1.1V, Powers the ARM core of the i.MX 7D.

Location of zero ohm resistors (0603 size)
BUCK: 1.8V, One supply to LPDDR3 memory

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