

## Carte Diem BLE Commands

UPC UUID = "e36b6c81-1d7e-4589-b289-794fb676b14f"

Cart Tracking UUID = "d5eabd06-05a6-4b8d-bb15-8393c3a703de"

Item verification: c7a12053-7add-4a60-bd43-af8f0d171dce

Fake Payment UUID: "45ef2927-fd6a-4ba2-ab82-f3f5f27b7967"

Produce Weight UUID: 9f50361c-8ce0-4655-9903-577ca0c7db68

Misc.: b8ce8946-c4d4-486a-91fe-9fea2a670262

Send COMMAND to ESP: 81de7ab2-7bb5-4a08-91ad-73165d9d2bb0

COMMAND	Trigger	Function	Components	Return Value	Return UUID (BLE)
	Upon barcode scan	- Button/Prox.sensor triggers barcode scan - Returns scanned UPC	Barcode scanner, Button, Proximity sensor	"#####" UPC only. No indicator/other info	UPC
PAY_START		- begin fake payment sequence - returns payment status	MFRC522	"1" on SUCCESS "0" otherwise	Fake Payment
PAY_READ		- read and returns card RFID scan	MFRC522	"[PAY] UID: #####" or "[PAY] NO_CARD"	Misc.
M_PROD or MEASURE_PROD_WEIGHT		- Measure produce weight in oz	Produce Load Cell	".####"	Produce Weight
M_CART or MEASURE_CART_WEIGHT		- Measure produce weight in lbs	Cart Load Cell	"[CART_LOAD] .####"	Misc.
T_PROD or TARE_PROD_WEIGHT		- Tare produce load cell	Produce Load Cell	N/A	N/A
T_CART or TARE_CART_WEIGHT		- Tare cart load cell	Cart Load Cell	N/A	N/A
PROX_READ		- Return proximity reading	Proximity sensor	"[PROX] ##"	Misc.
IMU_STATUS or IMU_CHECK_ACTIVITY		- Return IMU moving/idle status	IMU	"[IMU] MOVING" or "[IMU] STOPPED" or "[IMU] IDLE"	Misc.
IMU_IDLE_TIME		- Return idle time in milliseconds	IMU	"[IMU] IDLE_TIME: ####"	Misc.

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IMU_ACCEL		- Return XYZ acceleration	IMU	"[IMU] ACCEL: X=#.##, Y=#.##, Z=#.##"	Misc.
IMU_HEADING		- Return IMU heading	IMU	"[IMU] HEADING: ###"	Misc.
	IMU idle for 5+ min	- after 5+ min of idle state, idle state is reported <b>every minute</b>	IMU	"[IMU] IDLE"	Misc.
	IMU return to moving	- if IMU is moving again, immediately send notification	IMU	"[IMU] MOVING"	Misc.
IV_TRIG or IV_SCAN		- Trigger item verification sequence - Return cart weight in <b>lbs</b> + RFID scan summary	Item verification RFID	"weight,num_tags,tag1,tag2,tag3,..."	Item verification
	Significant cart weight change <b>(after CT_START only)</b>	- If cart weight changes by <b>threshold</b> , item verification sequence is triggered	Item verification RFID, Cart load cell	"weight,num_tags,tag1,tag2,tag3,..."	Item verification
CT_START		- Begin <b>weight monitoring task</b> - Tare cart load cell - Run initial item verification scan - Enable cart tracking	Cart load cell, Cart tracking RFID, Item verification RFID	N/A	Cart Tracking
CT_STOP		- Send log file via BLE - Clear data log	Cart load cell, Cart tracking RFID, Item verification RFID	<b>send log file</b>	Cart Tracking
CT_CLEAR		- Discard data log	Cart load cell, Cart tracking RFID, Item verification RFID	N/A	Cart Tracking
Wrong commands		Returns error	N/A	"[ERROR] UNKNOWN_CMD" Or "[ERROR]" + {description}	Misc.