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August 31, 2016

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046

To whom it may concern,

Onity, Inc. is submitting this application for a single limited modular certification on 4 configurations of the Onity Trillium RFID reader, for installation into four Onity host products. Authorization is sought under FCC 15.225. The limited modular certification will use an FCC identifier of R32-10103704P1.

The configurations and the corresponding host devices are defined as follows.

Configuration Name	RFID Radio Model	Host Device Model(s)	Note
Trillium RFID	RH600101	10104332P1	RFID only, battery powered
		10104333P1	RFID & BTLE, battery powered
Trillium Advance RFID	RH600102	10104334P1	RFID only, battery powered
		10104335P1	RFID & BTLE, battery powered
Trillium RFID Wall Reader	RH600103	10104338P1	RFID only, line powered
		10104339P1	RFID & BTLE, line powered
Trillium RFID Encoder	RH600110	10104340P1	RFID only, line powered

In each configuration the RF components of the module are the same, differing only to compensate for the amount of metal present in each configuration (which affects the tuning of the RFID circuit). Some configurations have different wired interfaces used to communicate between the RFID module and the host device, and different components are populated on the circuit board to enable or disable these interfaces as needed.

The RFID module uses NXP brand NCF3320 RFID driver chip as the main RF-generating IC. The functionality of the module is controlled by a Texas Instruments MSP430F5503 microcontroller.

In lock configurations with Bluetooth LE included, the Bluetooth functionality is provided by the Supra DirectKey Module, which holds a separate modular certification identified by the following information:

Supra DirectKey™ Module
Model: 002220
FCC ID: TCZ-10103751G1
IC: 1175F-10103751G1

Sincerely,

Jay Despain
Technology Leader