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THIS SPEC IS OBSOLETE

Spec No: 002-05171

Spec Title: AN205171 - F2MC-8FX Family, MB95410H/470H  
Series One Phase Power Meter (RN8209)  
Payment Operation

Replaced by: None

## F<sup>2</sup>MC-8FX Family, MB95410H/470H Series One Phase Power Meter (RN8209) Payment Operation

This application note describes how to use One Phase Power Meter (RN8209) solution's payment function.

### 1 Introduction

This application note describes how to use One Phase Power Meter (RN8209) solution's payment function.

Chapter 2 explains the background of payment.

Chapter 3 explains the FW function list.

### 2 Background

Background of Payment

#### 2.1 Overview

When the energy value reaches 1KWH, the system will accumulate energy and deduct the charge.

### 3 FW Function List

#### 3.1 API

Table 1. FW API List

Function Prototype	Description
void Payment_Init(void)	Initialize to load current tariff and credit
void PrepayInfoReminder(void)	Provide warning reminder for prepay
void LoadPaymentConfig(void)	Load prepayment system configuration
void SavePaymentConfig(void)	Save prepayment system configuration
void LoadPrepayState(void)	Load pre-payment current state from EEPROM
void SavePrepayState(void)	Save pre-payment current state into EEPROM
void GetTimeTariffRate(void)	Get current price under multiple time tariff payment scheme
void PowerSupplySwitchCtl(INT8U onOff)	Power cut-off / turn-on control
INT16U GetCurrentTariffRate(void)	Retrieve current tariff rate

#### 3.2 HAL

Table 2. FW HAL List

Function Prototype	Description
void BalanceDeductPerKWH(void)	Deduct the charge per KWH
void BalanceDeductPerNPulse(INT16U pulseCnt)	Deduct the charge per N pulse count

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## 5 Document History

Document Title: AN205171 - F<sup>2</sup>MC-8FX Family, MB95410H/470H Series One Phase Power Meter (RN8209)

Payment Operation

Document Number: 002-05171

Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	-	HUAL	06/10/2011	Initial release
*A	5243097	HUAL	06/17/2016	Migrated Spansion Application Note MCU-AN-500113-E-10 to Cypress format There is no information how/where to acquire the RN8209 source code, So this AN is for obsolete.

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