

# BC26 Release Notes

## LPWA Module Series

Rev. BC26-NC\_Firmware\_Release\_Notes\_V0106

Date: 2019-03-29



## 1. Preamble

This document provides the Release Notes for BC26 firmware version **BC26NCR01A06**. It describes major changes compared to firmware version **BC26NCR01A03**. For a detailed listing of all changes, refer to the BC26 AT Command Set.

## 2. New Features

| Item /Category | Brief Description   | Since  |
|----------------|---|--------|
| <b>DFOTA</b>   | Added <b>DFOTA</b> over CT IOT platform feature.  | R01A06 |
| <b>MQTT</b>    | Added data mode transfer mechanism for <b>MQTT</b> .                                    | R01A06 |
| <b>GENERAL</b> | Supported all in one mode of <b>OpenCPU</b> and Standard module.                        | R01A06 |
| <b>RI</b>      | Added RI feature for URC indicating.  | R01A06 |
| <b>TCPIP</b>   | Added data mode transfer mechanism for <b>TCP/UDP</b> .                                 | R01A06 |
| <b>LwM2M</b>   | Added <b>AT+QLWGETERROR</b> command for quering the last error code of LwM2M operation. | R01A06 |
| <b>TCPIP</b>   | Added <b>AT+QIDNSCFG</b> command for DNS server configuration.                          | R01A06 |
| <b>OpenCPU</b> | Supported upgrade APP bin file via DFOTA.   | R01A06 |
| <b>OneNET</b>  | Supported OneNET DM2.0.   | R01A06 |

## 3. Improved Features

| Item/Category  | Brief Description  | Since  |
|----------------|--|--------|
| <b>NETWOK</b>  | Improved the network searching mechanism of underlying modem protocol.         | R01A06 |
| <b>TCPIP</b>   | Fixed the bug that IPV6 communication failed issue.                            | R01A06 |
| <b>GENERAL</b> | Enhance the NVDM management policy for more robust stability.                  | R01A06 |
| <b>GENERAL</b> | Fixed the bug that executing <b>AT+QSCLK</b> in lower case return error issue. | R01A06 |
| <b>NETWORK</b> | Fixed the bug that SINR value frequency hopping issue.                         | R01A06 |

|                |  |        |
|----------------|--|--------|
| <b>OpenCPU</b> | Fixed the bug that some GPIOs level changed during boot-up phase.  | R01A06 |
| <b>NETWORK</b> | Fixed the bug that EARFCN abnormal decoded issue.  | R01A06 |
| <b>OpenCPU</b> | Unrestricted the time interval of ADC sampling, the minimum interval can be configured to 10ms.  | R01A06 |
| <b>OpenCPU</b> | Modified the implementation of <b>QI_OS_GetMessage</b> , the message of ADC sampling , normal EINT , software Timer will be handled internally in this function , not returned from this API any more. | R01A06 |
| <b>NETWORK</b> | Fixed the abnormal behavior of AT+CGATT=1 issue.   | R01A06 |
| <b>TCPIP</b>   | Fixed the bug that DNS parse failed by executing <b>AT+QNTP</b> .  | R01A06 |
| <b>GENERAL</b> | Fixed the bug that GPT timer low probability fails to trigger callback.  | R01A06 |
| <b>OpenCPU</b> | Fixed the bug that the UART will be stuck when receiving 1400 bytes in one time.   | R01A06 |
| <b>OneNET</b>  | Fixed the bug that UE can still send CON type data when received RST from the server.  | R01A06 |

## 4. Functions

### Basic Function

OneNET

Y

### Protocol Function

| TCP/UDP | NITZ | PING | NTP | LwM2M | MQTT |
|---------|------|------|-----|-------|------|
|---------|------|------|-----|-------|------|

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| Y | Y | Y | Y | Y | Y |
|---|---|---|---|---|---|

### Special Function

| DFOTA | PSM | OpenC<br>PU |
|-------|-----|-------------|
|-------|-----|-------------|

|   |   |   |
|---|---|---|
| Y | Y | Y |
|---|---|---|

### NOTES

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.