| NO: | RF-042 | PRODUCT: | V680S RFID Firmware |
| --- | --- | --- | --- |
| DATE: | April 2017 | TYPE: | Modification Notice |

# V680S Integrated HF RFID Reader/Writer Firmware Update Improves Tag Discrimination to Reduce Reading Errors

**Effective date: April 2017 production**

**Reason for modification:**

- Version 3.02 firmware will allow a tag read even if a second non target tag is close to or entering the radio frequency read area.

- This feature will **prevent the erroneous reading** of a nearby but non-target RFID tag. This command can be configured to allow only one attempted read of the target tag or multiple reads on a target tag.

- Another change is the addition of a **query command for the device firmware version** and a browser interface for firmware version

## Affected Parts

| Reader/writer size | Network | Model |
| --- | --- | --- |
| 50 x 50 x 30 mm | EtherNet/IP | **V680S-HMD63-EIP** |
| | PROFINET | **V680S-HMD63-PNT** |
| | Modbus TCP (TCP/IP) | **V680S-HMD63-ETN** |
| 75 x 75 x 40 mm | EtherNet/IP | **V680S-HMD64-EIP** |
| | PROFINET | **V680S-HMD64-PNT** |
| | Modbus TCP (TCP/IP) | **V680S-HMD64-ETN** |
| 120 x 120 x 40 mm | EtherNet/IP | **V680S-HMD66-EIP** |
| | PROFINET | **V680S-HMD66-PNT** |
| | Modbus TCP (TCP/IP) | **V680S-HMD66-ETN** |

See the following pages for details of differences.

# Detail of Differences

| Previous Versions | Version 3.02 |
|---|---|
| **Communications options**<br>**Model:V680S-HMD6□-ETN**<br><br>| Once |<br>| Auto |<br>| FIFO Trigger | | **Communications options**<br>**Model:V680S-HMD6□-ETN**<br><br>Added first in first out (FIFO) Trigger with ID code check option.<br><br>| Once | | |<br>| Auto | | |<br>| FIFO Trigger | without ID code check | ← existing option |<br>| | with ID code check | ← added |<br><br>**Description of FIFO Trigger with ID code check option.**<br>  When the Reader/Writer receives a query, it communicates with an RF Tag. After communicating, all further operations with that RF Tag are prohibited. The Reader/Writer communicates with only one operable RF Tag in the communications field. The Reader/Writer will not communicate with it a second time.<br>  You can use the FIFO Trigger with ID code check option to perform communications with RF Tags even when there is limited space between the RF Tags. Even if the next RF tag enters the communication area, there is no possibility that the data is erroneously read or a communication error due to collisions does not occur.<br>  However, the communication time of FIFO Trigger with ID code check is longer than that of FIFO Trigger without ID code check.<br><br>Note) Even after adding the above option, there is no change in other functions. |

| Previous Versions | Version 3.02 |
|---|---|
| **Model:V680S-HMD6□-EIP**<br><br>| Once |<br>| Repeat |<br>| FIFO Trigger | | **Model:V680S-HMD6□-EIP**<br>**Added auto option and FIFO Repeat with ID code check option.**<br><br>| Once | | |<br>| Auto | | ← added |<br>| Repeat | | |<br>| FIFO Repeat | without ID code check | ← existing option |<br>| | with ID code check | ← added |<br><br>**Description of Auto option.**<br>  The Reader/Writer automatically detects an RF Tag and communicates with it. After the host device sends a command, the Reader/Writer automatically detects an RF Tag that enters the communications field and communicates with it.<br><br>**Description of FIFO Repeat with ID code check option.**<br>  When the Reader/Writer receives a command, it communicates with RF Tags repeatedly. After communicating, all further operations with that RF Tag are prohibited. The Reader/Writer communicates with only one operable RF Tag in the communications field. The Reader/Writer will not communicate with it a second time.<br>  You can use the FIFO Repeat with ID code check option to perform communications with RF Tags even when there is limited space between the RF Tags. Even if the next RF tag enters the communication area, there is no possibility that the data is erroneously read or a communication error due to collisions does not occur.<br>  However, the communication time of FIFO Repeat with ID code check is longer than that of FIFO Trigger without ID code check.<br><br>Note) Even after adding the above option, there is no change in other functions. |

| Previous Versions | Version 3.02 |
|---|---|
| **Look and feel of Web browser interface** | **Look and feel of Web browser interface**<br>Improve browser screen design. There are no screen layout and function changes for this version upgrade. |
| **Model：V680S-HMD6□-ETN** | **Model：V680S-HMD6□-ETN** |
|  |  |
| **Model：V680S-HMD6□-EIP**<br>**Model：V680S-HMD6□-PNT** | **Model：V680S-HMD6□-EIP**<br>**Model：V680S-HMD6□-PNT** |
|  |  |

| Previous Versions | Version 3.02 |
|---|---|
| **Firmware version**<br>**Model：V680S-HMD6□-ETN**<br>**Model：V680S-HMD6□-EIP**<br>**Model：V680S-HMD6□-PNT**<br>Ver.3.01 | **Firmware version**<br>**Model：V680S-HMD6□-ETN**<br>**Model：V680S-HMD6□-EIP**<br>**Model：V680S-HMD6□-PNT**<br>Ver.3.02<br>You can confirm the firmware version of V680S by using the query/command or Browser interface described below.<br><br> |
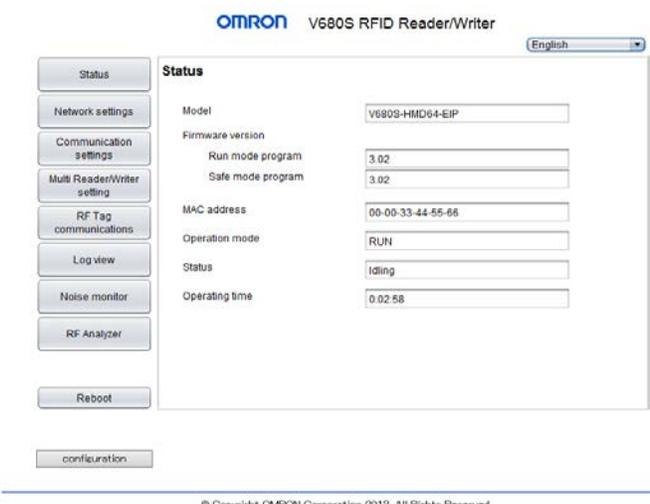
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