

Description of Permissive Change

The application is prepared for FCC Class II Permissive Change to add a new antenna set (Model: JR2Q00340-1) which can be used with the module. No changes to the design or circuitry of the module itself have been made. For more info about the antenna info, please refer to below table.

| Original | | | | | | | | | | |
|----------|--------------|--------|----------------------------|--|---|-----------|----------------|-------------------|---|--------------------------------------|
| Ant. Set | RF Chain No. | Brand | Model | Ant. Net Gain (dBi) | Freq. Range (GHz) | Ant. Type | Connector Type | Cable Length (mm) | Cable Loss (dB) | Excluding Cable Loss Ant. Gain (dBi) |
| 1 | Chain0 | Cortec | AN2450-4902BRS | 2.42 3.87 | 2.4~2.4835 5.15~5.85 | Dipole | R-SMA | 150 | 2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8 | 2.92 4.67 |
| | Chain1 | Cortec | AN2450-4902BRS | 2.42 3.87 | 2.4~2.4835 5.15~5.85 | Dipole | R-SMA | 150 | 2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8 | 2.92 4.67 |
| 2 | Chain0 | PSA | RFMTA340718E MLB302 | 3.18 4.92 | 2.4~2.4835 5.15~5.85 | PIFA | i-pex(MHF) | 200 | included cable loss | - |
| | Chain1 | PSA | RFMTA340718E MLB302 | 3.18 4.92 | 2.4~2.4835 5.15~5.85 | PIFA | i-pex(MHF) | 200 | included cable loss | - |
| 3 | Chain0 | PSA | RFMTA311020E MMB301 | 1.71 4.82 3.31 | 2.4~2.4835 5.15~5.85 5.92~7.125 | PIFA | i-pex(MHF) | 200 | - | - |
| | Chain1 | PSA | RFMTA311020E MMB301 | 1.71 4.82 3.31 | 2.4~2.4835 5.15~5.85 5.92~7.125 | PIFA | i-pex(MHF) | 200 | - | - |
| 4 | Chain0 | PSA | RFMTA311020E MMB301_V02 | 1.71 4.82 4.76 4.29 4.61 4.09 | 2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125 | PIFA | i-pex(MHF) | 200 | - | - |
| | Chain1 | PSA | RFMTA311020E MMB301_V02 | 1.71 4.82 4.76 4.29 4.61 4.09 | 2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125 | PIFA | i-pex(MHF) | 200 | - | - |

| Newly | | | | | | | | | | |
|----------|--------------|-------|-------------|---|---|-----------|----------------|-------------------|-----------------|--------------------------------------|
| Ant. Set | RF Chain No. | Brand | Model | Ant. Net Gain (dBi) | Freq. Range (GHz) | Ant. Type | Connector Type | Cable Length (mm) | Cable Loss (dB) | Excluding Cable Loss Ant. Gain (dBi) |
| 5 | Chain0 | VSO | JR2Q00340-1 | 1.62 3.2 3.93 3.61 3.61 3.14 | 2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125 | Dipole | RP SMA PLUG | 40 | - | - |
| | Chain1 | VSO | JR2Q00340-1 | 1.62 3.2 3.93 3.61 3.61 3.14 | 2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125 | Dipole | RP SMA PLUG | 40 | - | - |



Debby Lin, Senior Specialist
 Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
 Tel: 886 3 318 3232, ext. 4311900
 Fax: 886-3-327 0892
 Email: debby.lin@bureauveritas.com Data: 2021-06-15