

To:  
 Federal Communications Commission,  
 Authorization & Evaluation Division,  
 7435 Oakland Mills Road,  
 Columbia, MD 21046  
 & (IC delete if not involved)  
 Innovation, Science and Economic Development Canada  
 Certification and Engineering Bureau  
 P.O. Box 11490, Station H  
 3701 Carling Avenue (Building 94)  
 Ottawa, Ontario K2H 8S2

Dear Examiner,

This is to request a Class II permissive change for FCC ID: DVE-RPC24, original grant date: 05/09/2019 and Class II permissive change for IC: 24775-RPC24, original grant date: 05/17/2019

Pls. describe the changes

The difference description between the new model: **RP-C-16B-F-24V** and original models: **RP-C-12A/B/C-F-24V** is described below.

*Description*

SmartX IP Controller – RP-C is an IP based field controller that will be used for different HVAC control applications in large buildings like commercial buildings, hospitals, hotels, banks or data centers. Typical HVAC applications for RP-C are Fan Coil/Ceiling systems or chilled beam applications and it is segmented for rooms and zones.

The RP-C current models exist in three different configurations for the North American market. All three share the exact same PCB design and the differences is on the inputs and outputs which is used to control different HVAC equipment. This is configured in the factory by depopulating of components. The three current different models are:

Model name	Difference
RP-C-12A-F-24V	8 Universal inputs, 4 Digital Outputs (Solid state)
RP-C-12B-F-24V	8 Universal inputs, 4 Digital Outputs (Relay)
RP-C-12C-F-24V	4 Universal inputs, 8 Digital Outputs (Solid state + Relay)

The new model **RP-C-16B-F-24V** is described below.

Model name	Difference
RP-C-16B-F-24V	8 Universal inputs, 8 Digital Outputs (Solid state + Relay)

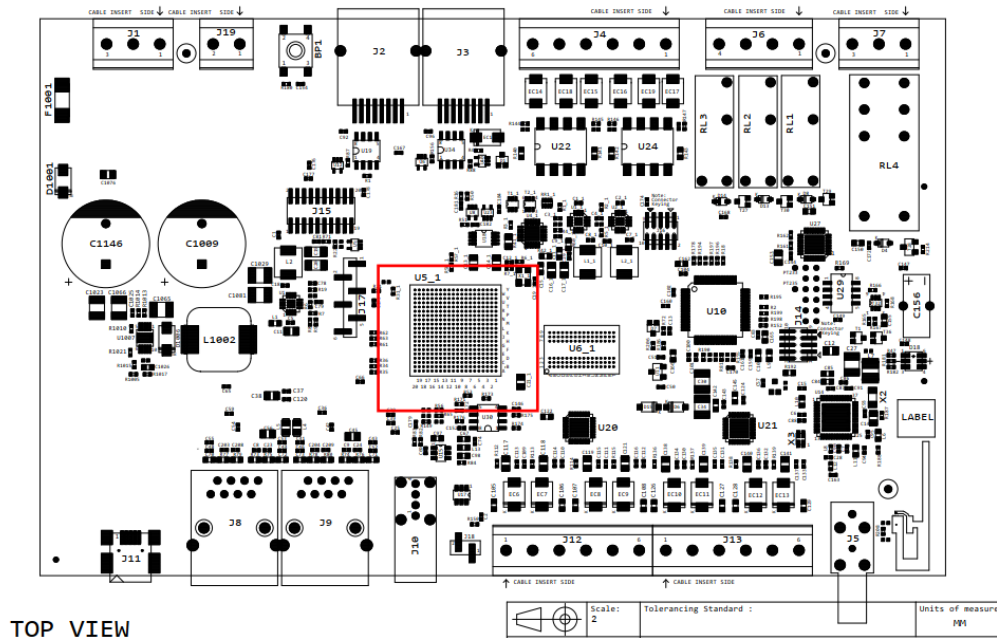
The same type of IOs exist between the current models, RP-C-12A/B/C and the new model RP-C-16B where the only change is to replace the current Application MCU (not related with radio) to another higher performance Application MCU.

Exactly the same peripherals are used and a copy of schematic and layout is done.

So all the function blocks when it comes to Radio(MCU, Antenna+ discrete component), IO types, Ethernet, USB, Power Supplies, and local COM ports are the same.

Also the same complete plastic housing is reused.

Below the PCB Floor plan is shown where the Application MCU that is changed is highlighted.



Based on above, the RE and RSE (Radiated Spurious Emissions) have been retested.

Name  
2021-12-14



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