



July 11, 2016

Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Re: Certification Application
FCC ID: SM6-MINODE-M

Dear Sir or Madam:

Mueller Systems LLC ("Mueller Systems") respectfully requests authorization for FCC ID: SM6-MINODE-M ("DCOM4-LP") as a limited modular device. The requirements of FCC part 15.212 have been met and shown on the following statements:

1. *"The radio elements of the modular transmitter must have its own shielding."* The radio portion of this module has been shielded.
2. *"The modular transmitter must have buffered modulation/data inputs."* The DCOM4-LP contains buffered data inputs; they are integrated in Atmel XMEGA256D3 device.
3. *"The modular transmitter must have its own power supply regulation."* The DCOM4-LP does not contain its own power supply regulation. The DCOM4-LP requires the host equipment to supply a regulated 3.6V supply. The DCOM4-LP will not be sold for inclusion in third party equipment and will only be sold as a part of a Mueller Systems product which will be designed to supply the properly regulated voltage to the module. This will satisfy the requirements for a Limited Module approval pursuant to Section 15.212(b).
4. *"The modular transmitter must comply with the antenna and transmission requirements of section 15.203, 15.204(b) and 15.204(b)."* The DCOM4-LP meets the FCC antenna requirements. The antenna will either be a Mueller Custom Monopole antenna, part number 145-0026-001 or 145-0029-001, or a Mueller Custom Helical Antenna, part number 145- 0021-001, which is soldered directly to the printed circuit board. The module will only be sold and installed within Mueller Systems equipment, with the antenna installed by factory trained personnel.
5. *"The modular transmitter must be tested in a stand-alone configuration."* The DCOM4-LP was tested in a stand-alone configuration via a serial interface.
6. *"The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying FCC identification number."* Please see attached exhibit, FCC Label for the FCC ID of this module.



7. *"The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements."* The DCOM4-LP is compliant with all applicable FCC rules. Detailed instructions for maintaining compliance are given in the attached exhibit, Installation Manual.
8. *"The modular transmitter must comply with any applicable RF exposure requirements."* The DCOM4-LP is compliant with all applicable RF exposure requirements. RF Exposure is addressed in the test report exhibit "RF Exposure".

Sincerely,

A handwritten signature in black ink, appearing to read "Robert P. Keefe".

Robert P. Keefe

Senior Vice President/Chief Technology Officer/Chief Information Officer