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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 35381.9-2017

**Tractors and machinery for agriculture and forestry -- Serial
control and communications data network -- Part 9: Tractor ECU**

农林拖拉机和机械 串行控制和通信数据网络 第9部分：拖拉机ECU

(English Translation)

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Foreword

GB/T 35381 "agriculture and forestry tractors and machinery serial control and communication data network" is divided into the following 14 parts.

- Part 1. General standards for data communications;
- Part 2. Physical layer;
- Part 3. Data link layer;
- Part 4. Network layer;
- Part 5. Network Management;
- Part 6. Virtual terminal;
- Part 7. Machine message application layer;
- Part 8. Powertrain Information;
- Part 9. Tractor ECU;
- Part 10. Task controller and management information system data exchange;
- Part 11. Data yuan dictionary;
- Part 12. Diagnostic Services;
- Part 13. File Server;
- Part 14. Sequence control.

This section GB/T 35381 Part 9.

This section drafted according to GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 11783-9.:2012 "agriculture and forestry tractors and machinery serial control and communication data network Part 9. Tractor ECUs. " the documents of our country that are in conformity with the corresponding international documents that are normative references in this part are as follows.

--- GB/T 35381.1-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 1. Data communications Common Criteria (ISO 11783-1.:2007, IDT)

--- GB/T 35381.2-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 2. Physical layer (ISO 11783-2.:2012, IDT)

--- GB/T 35381.4-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 4. Network layer (ISO 11783-4.:2011, IDT)

--- GB/T 35381.5-2017 Agriculture, Forestry and Tractor and Machinery Serial Control and Communication Data Network Part 5. Network Management (ISO 11783-5.:2011, IDT)

--- GB/T 35381.6-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 6. Virtual terminals (ISO 11783-6.:2014, IDT)

--- GB/T 35381.7-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 7. Machine tool news Application Layer (ISO 11783-7.:2015, IDT)

--- GB/T 35381.8-2017 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 8. Power transmission Department Message (ISO 11783-8.:2006, IDT) this part is proposed by China Machinery Industry Federation.

This part of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201) centralized.

This section drafted by. China First Tractor Group Co., Ltd., Henan University of Science and Technology, China Agricultural Mechanization Research Institute of Agriculture, Shandong Province Mechanical Science Institute.

1 Scope

GB/T 35381 provides for agriculture and forestry tractors and suspension, semi-suspension, traction or self-propelled equipment, serial control and communication data network, its purpose is to standardize the methods and formats of data transfer between sensors, actuators, control elements, information storage and display units, these devices Standard on or on tractors or suspension equipment. This section GB/T 35381 describes the tractor ECU (referred to as TECU), Gateway Control Services (CF) and other functions between tractor and tool bus.

The new requirements of the second edition (referring to the second edition of ISO 11789-9.:2012, ie this part) WorkingSets "in the detailed description.

Note: "The name of the tractor ECU (short for electronic control unit)" is also considered to represent the control function of the tractor or similar to that of a mobile agricultural machine Features, such as the virtual terminal on the machine bus.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 11783-1 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 1. General standards for data communications (Tractorsandmachineryforagricultureandforestry-Serialcontrolandcommunicationsatanet-work-Part 1. Generalstandardformobiledatacommunication) ISO 11783-2 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 2. Tractors and machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 2.

Physicallayer

ISO 11783-4 Agriculture, Forestry and Tractor and Machinery - Serial Control and Communication Data Network - Part 4. Tractorsand machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 4.

Networklayer)

ISO 11783-5 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 5. Tractors and machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 5.

Networkmanagement

ISO 11783-6 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 6. Tractors and tractors machineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 6.

Virtualterminal

ISO 11783-7 Tractors and machinery for agriculture and forestry - Serial control and communication data networks - Part 7. Machine message application layer (Trac-torsandmachineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 7. Implementmessagesapplicationlayer) ISO 11783-8 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 8. Trac-torsandmachineryforagricultureandforestry-Serialcontrolandcommunicationsdatanetwork-Part 8. Powertrainmessages) ISO 11783-10 Tractors and machinery for agriculture and forestry - Serial control and communication data network - Part 10. Task controller and information management