**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

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*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

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# **GENERAL**

*NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.*

## **SUMMARY**

### Section Includes:

#### RFID CARD READER

## **RELATED REQUIREMENTS**

### Section 25 08 00 - Commissioning of Integrated Automation

### Section 25 10 00 - Integrated Automation Network Equipment

### Section 27 41 16 - Audio-Video Systems and Equipment

## **REFERENCES**

### Abbreviations and Acronyms

#### AV - Audio-Video

#### BLE - Bluetooth Communications

#### RF - Radio Frequency

#### RFID - Identification by use of radio frequency (wireless) device(s)

# **PRODUCTS**

## **RFID CARD READER**

### Basis of Design RFID Card Reader

#### Crestron RFID-USB

*Specifier Note:*

*RFID-USB*

*The Crestron® RFID-USB is a sleek RFID card reader that integrates into supported room scheduling applications and custom room control projects via a TSW-70 series or TSS-70 series touch screen. The RFID-USB installs next to the touch screen, allowing users to easily authenticate with or communicate to the touch screen by scanning an RFID card. The RFID-USB also integrates with a Crestron control system for custom room control or access projects. The RFID-USB supports a range of LF and HF technologies (125 kHz and 13.56 MHz) as well as NFC and Bluetooth® Low Energy (BLE) communications to satisfy numerous RFID use cases.*

*The RFID-USB provides a small form factor and versatile mounting options for incorporation into new and existing installations. The RFID-USB attaches securely to glass or drywall surfaces using adhesive pads without requiring any screws. The RFID-USB also is compatible with mullion mount kit installations (TSW-770/1070-MSMK series). The RFID-USB connects directly to the touch screen via USB for power supply and data communication.*

*https://www.crestron.com/Products/Control-Surfaces/Accessories/IR-RF-Devices/RFID-USB*

### Communication

#### Host Connection: Female micro USB

*Specifier Note:*

*For connection to USB host port on TSW-70 series touch screen when used in that application type.*

#### RF Frequency:

##### 125 kHz (LF)

##### 13.56 MHz (HF)

##### 2.4 GHz (BLE)

#### Bluetooth Communications

##### Bluetooth v4.2; GAP, SM, L2CAP, ATT standards; Predefined GATT structure; AES128 supported

### Device Architecture

#### Form Factor:

##### The RFID card reader shall be capable of attaching securely to glass or drywall surfaces using adhesive pads without requiring any screws. The RFID card reader shall be compatible with touch screen mullion mounts by the same manufacturer.

##### The RFID card reader unit shall be a small form factor device allowing for versatile mounting options.

### Functions

#### The RFID card reader shall support touch screen connected functions using touch screen from the same manufacturer.

#### The RFID card reader shall support custom functions when connected to a control processor by the same manufacturer.

### Physical

#### Connectors

##### Host Connection: Female micro USB

### Power

#### Power over USB

# **EXECUTION**

*NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.*

# **APPENDICES**

## **SPECIFIED PRODUCTS**

### Crestron RFID-USB