

Data Sheet

HF Reader System Series 6000 S6550 Long Range Reader (Housed)



Specifications:

| Part number | 205 225 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------|
| Tag-It HF, Tag-It HF-I, ISO 15693 compliant Transponders | Part number | RI-STU-655A |
| Power Supply | Operating Frequency | 13.56MHz ± 7kHz |
| 220 - 240V / 50Hz switch selected | Supported Transponders | Tag-it HF, Tag-it HF-I, ISO 15693 compliant Transponders |
| Transmitter power 0.5W to 10W ± 1dB (adjustable by software in 0.25W steps) above 4W output power an additional heat sink 0.8K/W is necessary Transmitter modulation AM (10% - 30%) ± 6% or 100% (adjustable by software) Antenna connection Basic antenna (TX/RX) 1x SMA female Complementary antenna (RX only):: 1 x SMA female Antenna Impedance 50 Ohm at 13.56MHz Receive channels ASK 423.75kHz and FSK 423.75kHz / 484.29kHz for both antennas (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: -3-position DIP switch (up to 8 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity Communication Protocol ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -25°C to +55°C Storage Temperature -25°C to +86°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powde | Power Supply | |
| above 4W output power an additional heat sink 0.8K/W is necessary Transmitter modulation AM (10% - 30%) ± 6% or 100% (adjustable by software) Basic antenna (TX/RX) 1 x SMA female Complementary antenna (RX only):: 1 x SMA female Antenna Impedance 50 Ohm at 13.56MHz Receive channels ASK 423.75kHz and FSK 423.75kHz / 484.29kHz for both antennas (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: - 3-position DIP switch (up to 8 addresses) - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity Communication Protocol ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class Dimensions (L x W x H) 300mm x 200mm x 160mm | Power consumption | Max. 60W |
| Antenna connection Basic antenna (TX/RX) 1 x SMA female Complementary antenna (RX only):: 1 x SMA female Antenna Impedance 50 Ohm at 13.56MHz Receive channels ASK 423.75kHz and FSK 423.75kHz / 484.29kHz for both antennas (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: -3-position DIP switch (up to 8 addresses) - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 600W Inputs 2 opto-coupled: max. 24V DC / 20mA Protocol synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Transmitter power | |
| Complementary antenna (RX only): 1 x SMA female Antenna Impedance 50 Ohm at 13.56MHz Receive channels ASK 423.75kHz and FSK 423.75kHz / 484.29kHz for both antennas (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: - 3-position DIP switch (up to 8 addresses) - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity Communication Protocol ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Transmitter modulation | AM (10% - 30%) \pm 6% or 100% (adjustable by software) |
| Receive channels ASK 423.75kHz and FSK 423.75kHz / 484.29kHz for both antennas (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: - 3-position DIP switch (up to 8 addresses) - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity Communication Protocol IsO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Antenna connection | , |
| (adjustable by software) Communication Interfaces RS232 or RS485 (set by jumper) Address setting for interface Optional: - 3-position DIP switch (up to 8 addresses) | Antenna Impedance | 50 Ohm at 13.56MHz |
| Address setting for interface Optional: - 3-position DIP switch (up to 8 addresses) - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Receive channels | |
| - Software (up to 254 addresses) Communication Parameters Up to 115kBits, 8 data bits, even/odd/no parity ISO Host Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Communication Interfaces | RS232 or RS485 (set by jumper) |
| Communication Protocol Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Address setting for interface | |
| Memory EEPROM 1kByte (for parameters; up to 10,000 write cycles) RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Communication Parameters | Up to 115kBits, 8 data bits, even/odd/no parity |
| RAM 256 kByte (for data) Flash 512 kByte (for firmware; update via communication interface) Outputs 2 opto-coupled: 24V DC / 30mA 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Communication Protocol | ISO Host Protocol |
| 1 relay: 24V DC / 60W Inputs 2 opto-coupled: max. 24V DC / 20mA Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Memory | RAM 256 kByte (for data) |
| Synchronization Protocol synchronization via I/O Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Outputs | - P |
| Operating Temperature -20°C to +55°C Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Inputs | 2 opto-coupled: max. 24V DC / 20mA |
| Storage Temperature -25°C to +85°C Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Synchronization | Protocol synchronization via I/O |
| Vibration EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Operating Temperature | -20°C to +55°C |
| Casing Powder-coated sheet steel, look-up hinged lid Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Storage Temperature | -25°C to +85°C |
| Protection class IP54 Dimensions (L x W x H) 300mm x 200mm x 160mm | Vibration | EN60068-2-6 (10Hz to 200Hz: 0.15mm/2g) |
| Dimensions (L x W x H) 300mm x 200mm x 160mm | Casing | Powder-coated sheet steel, look-up hinged lid |
| + | Protection class | IP54 |
| Weight 5.5 kg | Dimensions (L x W x H) | 300mm x 200mm x 160mm |
| | Weight | 5.5 kg |

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: http://www.ti-rfid.com

Texas Instruments reserves the right to change its products and services at any time without notice. TI provides customer assistance in various technical areas, but does not have full access to data concerning the uses and applications of customers products. Therefore, TI assumes no responsibility for customer product design or for infringement of patents and/or the rights of third parties, which may result from assistance provided by TI.