

# Smart-RF2000 & RF Antenna

## RFID Reader

SmartNL-RF2000 is the latest in the RFID family of Readers from SmarTerminal. Its rugged design allows the unit to be deployed in multitude of enshrinements where vibration is a factor as a mobile or fix mount unit. Successfully deployed on factory floors, forklifts and trucks the SmartNL-RF2000 delivers tag information back to your office.



### » Applications



RFID



Vibration  
Test



IP65

## » RF2000 Specifications

### Air Interface Protocols

UHF, EPC Gen 2, ISO 18000-6C, EPC Class 1

### Frequency Range

US : 902MHz ~ 928MHz      EU : 865.6MHz ~ 867.6MHz

### Certifications

KC, FCC, ETSI

### Communications Interface

RS232, GPIO, Ethernet 100Mbps (RJ45 Connector)  
/ IP67 Sealed Connectors

### Environment

**Operating Temperature** : -20° to 50°C (-4° to 122°F)  
**Storage Temperature** : -30° to 75°C (-22° to 167°F)  
**Humidity** : 10% to 90% (non-condensing)  
**Environmental Protection** : Sealed to IP65  
**Vibration and Shock protection** : MIL-STD-810F

### Dimensions

- Depth : 223mm (48.8 in.)      • Width : 192mm (7.56 in.)
- Height : 608mm (2.67 in.)      • Weight : 1.57kg (3.5 lbs)

### User Interface

Indicator : 8 LED  
(Network, Data, Error, Power, Antenna 1-4)

### Power

- AC/DC Converter input 110/220V AC output DC 5V (25 watts)
- Option - External DC/DC Converter input 12-60V, output 5V (15 watts)

## » RF Antenna Specifications

### Performance Characteristics

Operation Frequency : 902MHz~928MHz

### Central Frequency

**SmartNL-AT1** : 915MHz (L), 919MHz (C) (200x200)  
**SmartNL-AT2** : 915MHz (L), 918.5MHz (C) (260x260)

### Polarization : Linear, Rhcp

Voltage standing wave ratio : 1.3:1 max. Ratio

### Environmental Protection

IP65 Rated

### Beam Width

**SmartNL-AT1** : 70 degree typical (L)/ (C)  
**SmartNL-AT2** : 70 degree typical (L), 65 degree typical (C)

### Typical Gain

**SmartNL-AT1** : 8.0dBiL (L)/ 5.3dBiL (C) (200x200)  
**SmartNL-AT2** : 8.0dBiL (L)/ 6.0dBiL (C) (260x260)

### Dimensions

- SmartNL-AT1(200x200) :**
- Length : 200cm (7.9 in.)      • Width : 200cm (7.9 in.)
  - Thickness : 30cm (1.1 in.)      • Weight : 600g (1.1 lbs.)
- SmartNL-AT2 (260x260) :**
- Length : 260mm (10.2 in.)      • Width : 260mm (10.2 in.)
  - Thickness : 40mm (1.2 in.)      • Weight : 800g (1.3 lbs.)

## » Accessories



▲ AC/DC Adapter



▲ DC/DC Converter



▲ Ethernet Cable



▲ Serial Cable

