



# Applicable Model: K211G



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# Contents

	1 Copyright and Disclaimer	- 4 -
2.1.1 LoRa Communication (Optional)	2 Product Introduction	4 -
2.1.2 Locking or Unlocking the K211G	2.1 Product Features	4 -
2.1.3 Dual SIM Cards       -6         2.1.4 Magnetic Charging       -7         2.1.5 Strong Magnetic Adsorption       -7         2.1.6 Anti-collision Soft Adhesive       -8         2.1.7 Security Performance - Super Password       -8         3 Product Functions       -9         3.1 Position Tracking       -9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.1 Binding the T399G       -15         6.6.2 Setting A Smart Sleep Mode – A73       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16	2.1.1 LoRa Communication (Optional)	4 -
2.1.4 Magnetic Charging       -7         2.1.5 Strong Magnetic Adsorption       -7         2.1.6 Anti-collision Soft Adhesive       -8         2.1.7 Security Performance - Super Password       -8         3 Product Functions       -9         3.1 Position Tracking       -9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6.1 Installing a SIM Card       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.3 Setting a Smart Sleep Mode – A73       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Power-off Function of the Power Button – C77	2.1.2 Locking or Unlocking the K211G	5 -
2.1.5 Strong Magnetic Adsorption       7         2.1.6 Anti-collision Soft Adhesive       8         2.1.7 Security Performance - Super Password       8         3 Product Functions       9         3.1 Position Tracking       9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuration       -13         6.5.1 Binding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.3 Setting The Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.4 Setting the SMS Time Zone – B35       -17         6.6.5 Disablin	2.1.3 Dual SIM Cards	6 -
2.1.6 Anti-collision Soft Adhesive       -8         2.1.7 Security Performance - Super Password       -8         3 Product Functions       -9         3.1 Position Tracking       -9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.1 Setting GPRS Parameters - A21       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module - A83       -16         6.6.3 Setting the SMS Time Zone - 835       -17         6.6.4 Suthing the FID Card - D10       -17         6.6.5 Okabing the POwer off Function of the Power Button - C77       -17         6.6.6 Authorizing RFID Cards in Batches - D11       -17         6.6.7 Authorizing RFID Cards in Batches - D11 <t< td=""><td>2.1.4 Magnetic Charging</td><td> 7 -</td></t<>	2.1.4 Magnetic Charging	7 -
2.1.7 Security Performance - Super Password       -8 -         3 Product Functions       -9 -         3.1 Position Tracking       -9 -         3.2 Alerts       -9 -         3.3 Other Functions       -10 -         4 Product Specifications       -10 -         5 Main Device and Accessories       -11 -         6.1 Installing a SIM Card       -11 -         6.2 Turning on the K211G       -12 -         6.3 LED Indicator       -13 -         6.4.4 Device Configuration       -13 -         6.4.2 Configurition pevice Parameters by Meitrack Manager       -14 -         6.5 Binding the USB Driver       -13 -         6.4.2 Configuriting the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.1 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.4 Setting the SMS Time Zone – B35.       -17 -         6.6.6 Authorizing RFID Cards in Batches – D11.       -17 -         6.6.7 Setting the Maximum Working Time of the Power Button – C77       17 -         6.6.7 Authorizing	2.1.5 Strong Magnetic Adsorption	7 -
3 Product Functions       -9         3.1 Position Tracking       -9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K2116       -12         6.3 LED Indicator       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuration       -14         6.5 Binding or Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.3 Setting GPRS Parameters – A21       -16         6.6.3 Setting GPRS Parameters – A21       -16         6.6.4 Setting a Smart Sleep Mode – A73       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.4 Setting the SMS Time Zone – B35       -17         6.6.5 Disabiling the Power-off Function of the Power Button – C77       -17         6.6.6 Authorizing an RFID Card – D10       -17         6.6.7 Authorizing RFID Card – D10       -17         6.6.8 Locking or Unlocking the K2116 – D82       -18	2.1.6 Anti-collision Soft Adhesive	- 8 -
3.1 Position Tracking       -9         3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4 Device Configuration       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuration       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.1 Binding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.4 Setting The Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.4 Setting an RFID Card – D10.       -17         6.6.5 Disabiling the Power-off Function of the Power Button – C77       -17         6.6.6 Authorizing an RFID Card – D10.       -17         6.6.7 Authorizing RFID Card – D10.       -17         6.6.8 Locking or Unlocking the K211G – D82.       -18         6.6.10 Setting the automatic authori	2.1.7 Security Performance - Super Password	- 8 -
3.2 Alerts       -9         3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4 Device Configuration       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.1 Binding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.4 Setting GPRS Parameters – A21       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.3 Setting the SMS Time Zone – B35       -17         6.6.4 Setting the SMS Time Zone – B35       -17         6.6.5 Disabiling the Power off Function of the Power Button – C77       -17         6.6.6 Authorizing an RFID Card – D10       -17         6.6.7 Authorizing RFID Cards in Batches – D11       -17         6.6.8 Locking or Unlocking the K211G – D82       -18	3 Product Functions	9 -
3.3 Other Functions       -10         4 Product Specifications       -10         5 Main Device and Accessories       -11         6 First Use       -11         6.1 Installing a SIM Card       -11         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4 Device Configuration       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.1 Binding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6.6 Common SMS Commands       -16         6.6.2 Setting a Smart Sleep Mode – A73       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.4 Setting the SMS Time Zone – B35       -17         6.6.6 Authorizing an RFID Card – D10       -17         6.6.7 Authorizing RFID Cards in Batches – D11       -17         6.6.8 Locking or Unlocking the K211G – D82       -18         6.6.10 Setting He automatic authorization time of swiping the RFID Card – DB0       -18         6.6.11 Changing Super Password – F22       -19         7 Using the Platform.       -19	3.1 Position Tracking	9 -
4 Product Specifications       -10-         5 Main Device and Accessories       -11-         6 First Use       -11-         6.1 Installing a SIM Card       -11-         6.2 Turning on the K211G       -12         6.3 LED Indicator       -13         6.4 Device Configuration       -13         6.4.1 Installing the USB Driver       -13         6.4.2 Configuring Device Parameters by Meitrack Manager       -14         6.5 Binding or Unbinding the T399G       -15         6.5.1 Binding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.5.2 Unbinding the T399G       -15         6.6 Common SMS Commands       -16         6.6.2 Setting a Smart Sleep Mode – A73       -16         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16         6.6.4 Setting the SMS Time Zone – B35       -17         6.6.6 Authorizing an RFID Card – D10       -17         6.6.6 Authorizing an RFID Card – D10       -17         6.6.7 Authorizing RFID Cards in Batches – D11       -17         6.6.8 Locking or Unlocking the K211G – D82       -18         6.6.9 Selecting a Locking Method – D83       -18         6.6.10 Setting the automatic autho	3.2 Alerts	9 -
5 Main Device and Accessories       -11 -         6 First Use       -11 -         6.1 Installing a SIM Card       -11 -         6.2 Turning on the K211G       -12 -         6.3 LED Indicator       -13 -         6.4 Device Configuration       -13 -         6.4.1 Installing the USB Driver       -13 -         6.4.2 Configuring Device Parameters by Meitrack Manager       -14 -         6.5 Binding or Unbinding the T399G       -15 -         6.5.1 Binding the T399G       -15 -         6.5.2 Unbinding the T399G       -16 -         6.6.3 Setting GPRS Parameters – A21       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.3 Setting the SMS Time Zone – B35       -17 -         6.6.4 Setting the SMS Time Zone – B35       -17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       -17 -         6.6.6 Authorizing an RFID Card – D10       -17 -         6.6.7 Authorizing RFID Cards in Batches – D11       -17 -	3.3 Other Functions	10 -
6 First Use       -11 -         6.1 Installing a SIM Card       -11 -         6.2 Turning on the K211G       -12 -         6.3 LED Indicator       -13 -         6.4 Device Configuration       -13 -         6.4.1 Installing the USB Driver       -13 -         6.4.2 Configuring Device Parameters by Meitrack Manager       -14 -         6.5 Binding or Unbinding the T399G       -15 -         6.5.1 Binding the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.6.1 Setting GPRS Parameters – A21       -16 -         6.6.1 Setting GPRS Parameters – A21       -16 -         6.6.2 Setting a Smart Sleep Mode – A73       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.4 Setting the SMS Time Zone – B35       -17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       -17 -         6.6.6 Authorizing an RFID Card – D10       -17 -         6.6.7 Authorizing RFID Cards in Batches – D11       -17 -         6.6.8 Locking or Unlocking the K211G – D82       -18 -         6.6.9 Selecting a Locking Method – D83       -18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       -18 -	4 Product Specifications	10 -
6.1 Installing a SIM Card       - 11 -         6.2 Turning on the K211G       - 12 -         6.3 LED Indicator       - 13 -         6.4 Device Configuration       - 13 -         6.4.1 Installing the USB Driver       - 13 -         6.4.2 Configuring Device Parameters by Meitrack Manager       - 14 -         6.5 Binding or Unbinding the T399G       - 15 -         6.5.1 Binding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.6.6 Common SMS Commands       - 16 -         6.6.1 Setting GPRS Parameters – A21       - 16 -         6.6.2 Setting a Smart Sleep Mode – A73       - 16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       - 16 -         6.6.4 Setting the SMS Time Zone – B35       - 17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – D80       - 18 -         6.6.11 Changing Super Password – F22	5 Main Device and Accessories	11 -
6.2 Turning on the K211G.       -12 -         6.3 LED Indicator.       -13 -         6.4 Device Configuration       -13 -         6.4.1 Installing the USB Driver       -13 -         6.4.2 Configuring Device Parameters by Meitrack Manager       -14 -         6.5 Binding or Unbinding the T399G       -15 -         6.5.1 Binding the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.6.5 Common SMS Commands       -16 -         6.6.1 Setting GPRS Parameters – A21       -16 -         6.6.2 Setting a Smart Sleep Mode – A73       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.4 Setting the SMS Time Zone – B35       -17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       -17 -         6.6.6 Authorizing an RFID Cards in Batches – D11       -17 -         6.6.7 Authorizing RFID Cards in Batches – D11       -17 -         6.6.8 Locking or Unlocking the K211G – D82       -18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – D80       -18 -         6.6.11 Changing Super Password – F22       -19 -         7 Using the Platform       -19 -	6 First Use	11 -
6.3 LED Indicator.       -13 -         6.4 Device Configuration       -13 -         6.4.1 Installing the USB Driver       -13 -         6.4.2 Configuring Device Parameters by Meitrack Manager.       -14 -         6.5 Binding or Unbinding the T399G       -15 -         6.5.1 Binding the T399G       -15 -         6.5.2 Unbinding the T399G       -15 -         6.6.3 Setting GPRS Parameters – A21       -16 -         6.6.3 Setting a Smart Sleep Mode – A73       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.4 Setting the SMS Time Zone – B35       -17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       -17 -         6.6.6 Authorizing an RFID Card – D10       -17 -         6.6.7 Authorizing RFID Cards in Batches – D11       -17 -         6.6.9 Selecting a Locking Method – D83       -18 -         6.6.10 Setting the automatic authori	6.1 Installing a SIM Card	11 -
6.4 Device Configuration       - 13 -         6.4.1 Installing the USB Driver       - 13 -         6.4.2 Configuring Device Parameters by Meitrack Manager       - 14 -         6.5 Binding or Unbinding the T399G       - 15 -         6.5.1 Binding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.6.5 Common SMS Commands       - 16 -         6.6.1 Setting GPRS Parameters – A21       - 16 -         6.6.2 Setting a Smart Sleep Mode – A73       - 16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       - 16 -         6.6.4 Setting the SMS Time Zone – B35       - 17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       - 18 -         6.6.11 Changing Super Password – F22       - 19 -         7 Using the Platform       - 19 -	6.2 Turning on the K211G	12 -
6.4.1 Installing the USB Driver- 13 -6.4.2 Configuring Device Parameters by Meitrack Manager- 14 -6.5 Binding or Unbinding the T399G- 15 -6.5.1 Binding the T399G- 15 -6.5.2 Unbinding the T399G- 15 -6.5.2 Unbinding the T399G- 15 -6.6 Common SMS Commands- 16 -6.6.1 Setting GPRS Parameters – A21- 16 -6.6.2 Setting a Smart Sleep Mode – A73- 16 -6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83- 16 -6.6.4 Setting the Maximum Working Time of the Power Button – C77- 17 -6.6.5 Disabling the Power-off Function of the Power Button – C77- 17 -6.6.6 Authorizing an RFID Card – D10- 17 -6.6.7 Authorizing RFID Cards in Batches – D11- 17 -6.6.8 Locking or Unlocking the K211G – D82- 18 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0- 18 -6.6.11 Changing Super Password – F22- 19 -7 Using the Platform- 19 -	6.3 LED Indicator	13 -
6.4.2 Configuring Device Parameters by Meitrack Manager.       - 14 -         6.5 Binding or Unbinding the T399G       - 15 -         6.5.1 Binding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Common SMS Commands       - 16 -         6.6.1 Setting GPRS Parameters – A21       - 16 -         6.6.2 Setting a Smart Sleep Mode – A73       - 16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       - 16 -         6.6.4 Setting the SMS Time Zone – B35       - 17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.9 Selecting a Locking Method – D83       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       - 18 -         6.6.11 Changing Super Password – F22       - 19 -         7 Using the P	6.4 Device Configuration	13 -
6.5 Binding or Unbinding the T399G       - 15 -         6.5.1 Binding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.5.2 Unbinding the T399G       - 15 -         6.6 Common SMS Commands       - 16 -         6.6.1 Setting GPRS Parameters – A21       - 16 -         6.6.2 Setting a Smart Sleep Mode – A73       - 16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       - 16 -         6.6.4 Setting the SMS Time Zone – B35       - 17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.9 Selecting a Locking Method – D83       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       - 18 -         6.6.11 Changing Super Password – F22       - 19 -         7 Using the Platform       - 19 -	6.4.1 Installing the USB Driver	13 -
6.5.1 Binding the T399G       -15 -         6.5.2 Unbinding the T399G.       -15 -         6.6.2 Setting GPRS Parameters – A21       -16 -         6.6.1 Setting GPRS Parameters – A21       -16 -         6.6.2 Setting a Smart Sleep Mode – A73       -16 -         6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.4 Setting the Maximum Working Time of the Woken GPS Module – A83       -16 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       -17 -         6.6.6 Authorizing an RFID Card – D10       -17 -         6.6.7 Authorizing RFID Cards in Batches – D11       -17 -         6.6.8 Locking or Unlocking the K211G – D82       -18 -         6.6.9 Selecting a Locking Method – D83       -18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       -18 -         6.6.11 Changing Super Password – F22       -19 -         7 Using the Platform       -19 -	6.4.2 Configuring Device Parameters by Meitrack Manager	14 -
6.5.2 Unbinding the T399G- 15 -6.6 Common SMS Commands- 16 -6.6.1 Setting GPRS Parameters – A21- 16 -6.6.2 Setting a Smart Sleep Mode – A73- 16 -6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83- 16 -6.6.4 Setting the SMS Time Zone – B35- 17 -6.6.5 Disabling the Power-off Function of the Power Button – C77- 17 -6.6.6 Authorizing an RFID Card – D10- 17 -6.6.7 Authorizing RFID Cards in Batches – D11- 17 -6.6.8 Locking or Unlocking the K211G – D82- 18 -6.6.9 Selecting a Locking Method – D83- 18 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0- 18 -6.6.11 Changing Super Password – F22- 19 -7 Using the Platform- 19 -	6.5 Binding or Unbinding the T399G	15 -
6.6 Common SMS Commands16 -6.6.1 Setting GPRS Parameters – A2116 -6.6.2 Setting a Smart Sleep Mode – A7316 -6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A8316 -6.6.4 Setting the SMS Time Zone – B3517 -6.6.5 Disabling the Power-off Function of the Power Button – C7717 -6.6.6 Authorizing an RFID Card – D1017 -6.6.7 Authorizing RFID Cards in Batches – D1117 -6.6.8 Locking or Unlocking the K211G – D8218 -6.6.9 Selecting a Locking Method – D8318 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB018 -6.6.11 Changing Super Password – F2219 -7 Using the Platform19 -	6.5.1 Binding the T399G	15 -
6.6.1 Setting GPRS Parameters – A21- 16 -6.6.2 Setting a Smart Sleep Mode – A73- 16 -6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83- 16 -6.6.4 Setting the SMS Time Zone – B35- 17 -6.6.5 Disabling the Power-off Function of the Power Button – C77- 17 -6.6.6 Authorizing an RFID Card – D10- 17 -6.6.7 Authorizing RFID Cards in Batches – D11- 17 -6.6.8 Locking or Unlocking the K211G – D82- 18 -6.6.9 Selecting a Locking Method – D83- 18 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0- 18 -6.6.11 Changing Super Password – F22- 19 -7 Using the Platform- 19 -	6.5.2 Unbinding the T399G	15 -
6.6.2 Setting a Smart Sleep Mode – A73- 16 -6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83- 16 -6.6.4 Setting the SMS Time Zone – B35- 17 -6.6.5 Disabling the Power-off Function of the Power Button – C77- 17 -6.6.6 Authorizing an RFID Card – D10- 17 -6.6.7 Authorizing RFID Cards in Batches – D11- 17 -6.6.8 Locking or Unlocking the K211G – D82- 18 -6.6.9 Selecting a Locking Method – D83- 18 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0- 18 -6.6.11 Changing Super Password – F22- 19 -7 Using the Platform- 19 -	6.6 Common SMS Commands	16 -
6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83- 16 -6.6.4 Setting the SMS Time Zone – B35- 17 -6.6.5 Disabling the Power-off Function of the Power Button – C77- 17 -6.6.6 Authorizing an RFID Card – D10- 17 -6.6.7 Authorizing RFID Cards in Batches – D11- 17 -6.6.8 Locking or Unlocking the K211G – D82- 18 -6.6.9 Selecting a Locking Method – D83- 18 -6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0- 18 -6.6.11 Changing Super Password – F22- 19 -7 Using the Platform- 19 -	6.6.1 Setting GPRS Parameters – A21	16 -
6.6.4 Setting the SMS Time Zone – B35       - 17 -         6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.9 Selecting a Locking Method – D83       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       - 18 -         6.6.11 Changing Super Password – F22       - 19 -         7 Using the Platform       - 19 -	6.6.2 Setting a Smart Sleep Mode – A73	16 -
6.6.5 Disabling the Power-off Function of the Power Button – C77       - 17 -         6.6.6 Authorizing an RFID Card – D10.       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11.       - 17 -         6.6.8 Locking or Unlocking the K211G – D82.       - 18 -         6.6.9 Selecting a Locking Method – D83.       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0.       - 18 -         6.6.11 Changing Super Password – F22.       - 19 -         7 Using the Platform.       - 19 -	6.6.3 Setting the Maximum Working Time of the Woken GPS Module – A83	16 -
6.6.6 Authorizing an RFID Card – D10.       - 17 -         6.6.7 Authorizing RFID Cards in Batches – D11.       - 17 -         6.6.8 Locking or Unlocking the K211G – D82.       - 18 -         6.6.9 Selecting a Locking Method – D83.       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0.       - 18 -         6.6.11 Changing Super Password – F22.       - 19 -         7 Using the Platform.       - 19 -	6.6.4 Setting the SMS Time Zone – B35	17 -
6.6.7 Authorizing RFID Cards in Batches – D11       - 17 -         6.6.8 Locking or Unlocking the K211G – D82       - 18 -         6.6.9 Selecting a Locking Method – D83       - 18 -         6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0       - 18 -         6.6.11 Changing Super Password – F22       - 19 -         7 Using the Platform       - 19 -	6.6.5 Disabling the Power-off Function of the Power Button – C77	17 -
<ul> <li>6.6.8 Locking or Unlocking the K211G – D82</li></ul>	6.6.6 Authorizing an RFID Card – D10	17 -
6.6.9 Selecting a Locking Method – D83	6.6.7 Authorizing RFID Cards in Batches – D11	17 -
6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0	6.6.8 Locking or Unlocking the K211G – D82	18 -
6.6.11 Changing Super Password – F22	6.6.9 Selecting a Locking Method – D83	18 -
7 Using the Platform 19 -	6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0	18 -
-	6.6.11 Changing Super Password – F22	19 -
7.1 MS03 Tracking System 19 -	7 Using the Platform	19 -
	7.1 MS03 Tracking System	19 -
7.2 Authorizing RFID Cards in Batches by MS03 19 -	7.2 Authorizing RFID Cards in Batches by MS03	19 -
8 Device Installation 21 -	8 Device Installation	21 -



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## **2** Product Introduction

The K211G is a GPS smart lock that supports Long Range (LoRa) and GPRS communication. Its main functions include real-time lock status monitoring, anti-tamper alert, anti-cut alert, swiping an RFID card to lock or unlock the device, and super long standby time. There is no button on the outer case of the device, and the IP67 water resistance rating makes the device withstand harsh environments ,and the device also has a crash-proof housing design. It is specially designed for door lock management in various land and sea transportation such as box trucks, trailers and containers.

#### 2.1 Product Features

#### 2.1.1 LoRa Communication (Optional)

This function is used for communication between the K211G and the T399G vehicle tracker. After the LoRa connection is successful, the K211G will send information such as lock status information and battery power to the T399G via LoRa. To establish LoRa communication between the K211G and the T399G, the two devices must be bound each other. For details about how to bind the T399G to the K211G, see the section 6.5 "Binding or Unbinding the T399G."

Start the two devices and connect

them to a PC.

Start Meitrack Manager and bind the T399G.

the T399G and K211G communication features:

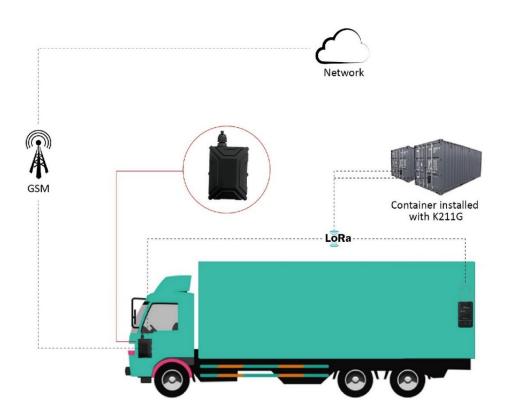
Table K211G can be connected to the T399G via LoRa to upload data.

One T399G tracker can be connected to the same time.

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## Communication diagram



K211G Working Mode		Status
LoRa connecte	d	The GPS and GSM modules of the K211G enter the sleep
		mode, and its lock status information and alerts will be
		uploaded to the server through the T399G.
LoRa	Deep sleep mode (send heartbeat	After the K211G is started properly, if no event is triggered,
disconnected	packets once every one hour)	the K211G will enter the deep sleep mode (the GPS module
		will stop) after five minutes (default time). The wakeup
		conditions include vibration, swiping RFID cards ,Call ,SMS
		and sending heartbeat packets.
	Super deep sleep mode (send	After the K211G is started properly, if no event is triggered,
	heartbeat packets once every one	the K211G will enter the deep sleep mode the GPS and GSM
	hour)	module will stop) after five minutes (default time). The
		wakeup conditions include vibration, swiping RFID cards and
		sending heartbeat packets.
	Sleep mode disabled	Report data at the preset interval.

## 2.1.2 Locking or Unlocking the K211G

Locking or Unlocking by Swiping RFID Cards

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The function is used to lock or unlock the K211G by swiping authorized RFID cards. When you swipe an RFID card, the K211G will automatically detect and record the unlocking time, location and RFID card number, and these data will be sent to the server.

Operation process: Put the authorized RFID card on the K211G's card swiping area. When the K211G detects this action, the buzzer will beep and the LVS LED indicator will be steady on, indicating that the K211G is unlocked. In this way, the last step for you is to pull out the lock rope. (To lock the K211G, you only need to swipe the RFID card once. Then the buzzer will beep and the LVS LED indicator will be off, indicating that the K211G is locked.) Swiping an RFID card:



LVS LED indicator steady on: unlock successfully

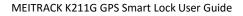
Note: In the locking or unlocking state, if you swipe an unauthorized RFID card, the buzzer will beep twice, but the K211G cannot be unlocked and locked. If you swipe an authorized RFID card, the buzzer will beep once. Before the K211G is locked, it is recommended to apply appropriate force on the lock rope first to make the waterproof ring of cable fully contact with the lock hole and improve the waterproof performance, and if the lock rope is cut, K211G cannot be locked. After the K211G is unlocked, if you do not pull out the lock rope within one minute, the K211G will be locked automatically.

#### Locking or Unlocking by Commands

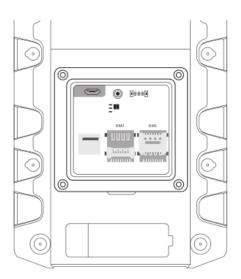
Command	Description	How to Send
D82	This command is used to lock or	Send the command by SMS or GPRS. For details about
	unlock the K211G.	the SMS command format, see the section 6.6.8
		"Locking or Unlocking the K211G – D82."
D83	This command is used to select a	Send the command by SMS or GPRS. For details about
	locking method: auto locking or	the SMS command format, see the section 6.6.9
	locking by swiping RFID cards.	"Selecting a Locking Method – D83."

### 2.1.3 Dual SIM Cards

The K211G can be installed with two Micro SIM cards and supports the dual SIM single standby mode. The device will automatically select a SIM card to register the network. SIM1 (on the right) will be selected by default. If SIM1 fails to register the network, SIM2 (on the left) will be selected to do this. (Please ensure that at least one SIM card can be used normally.)

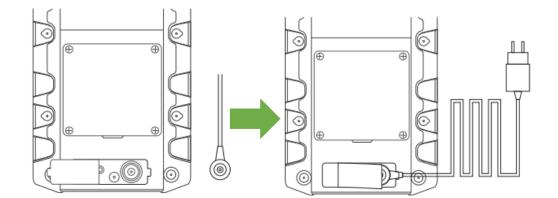






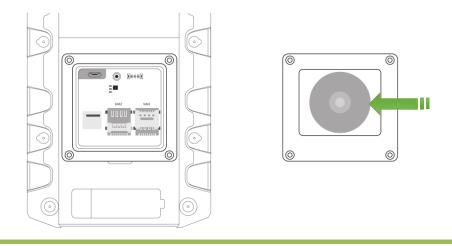
## 2.1.4 Magnetic Charging

You can use the magnetic charging cable to charge the K211G. The device supports 9V/2A power adapter, and it will take a total of 7.5–8 hours to charge the device fully.



## 2.1.5 Strong Magnetic Adsorption

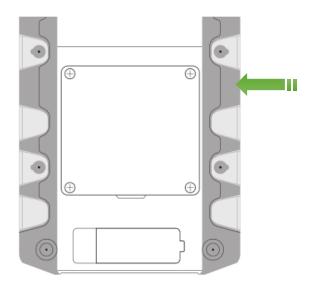
The back of the cover plate has strong magnetic, which can be adsorbed to the car door to prevent the device from shaking during movement.





### 2.1.6 Anti-collision Soft Adhesive

The gray protruding part in the figure is Anti-collision soft adhesive, which has shock absorption effect and it can effectively protect the device from being damaged in the collision.



## 2.1.7 Security Performance - Super Password

To enhance security, K211G supports super password.

Super password (the default is 666888) supports all SMS commands, but DB0 / D82 / D10 / D11 / D14 D15 / A21 / F22 commands can't use the original SMS password (the default is 0000), they can only use super password. When setting GPRS parameters through Meitrack Manager, you need to open the super password first before setting successfully:

Meitrack Manager 6.0.1.0			X
8 Basic	GPRS Tracking Para Setting		<b>Î</b>
Tracking	GPRS IP/Domain	© dose ● TCP ◎ UDP 67.203.15.7 • Port 10003	
GeoFence	Backup IP/Domain GPRS Timezone(mins)	0 in the second	
- Event	APN Setting APN		
Peripheral	Username Password		E
«	Tracking Setting Protocol	Auto Event Report	- -
	GPRS Mode GPRS Interval	Mode0         GPRS Report Time         0         CPS Log Interval(secs)         0         CP           6         C         X10 secs         Heartbeat Location Time(mins)         0         C         C	
	SMS Tracking	Set	
	SMS Password 0	000         Auto Report Times         0         5         SMS Timezone(mins)         0         5           SMS Report Interval(mins)         0         5         Super Password         OPEN	
		Set	
	Option	Synchronize Parameters Factory Load Settings From File Save S	ettings To File
[GPRS Tracking]Some device	parameter Settings failed.	ID Library Versi	on:2019.5.28.01 .;;



Meitrack Manager 6.0.1.0						
Basic Tracking GeoFence Event Perpheral	SPRS Tracking Para Setting GPRS IP/Domain Backup IP/Domain GPRS Timezone(mins) APN Setting APN Username	© Close ● TCP ◎ UD 67.203.15.7 ↓ 0 ★	P Port 10003 Port			
« -	Password Tracking Setting Protocol GPRS Mode GPRS Interval	Auto Event Report Mode0 6 x X10 secs	GPRS Report Time	• 0 *	GPS Log Interval(secs) 0 Heartbeat Location Time(mins) 0	in in in in its set
	SMS Tracking SMS Password 00 SMS Track NO.	000	Auto Report Times SMS Report Interval(mins)	0 ×	SMS Timezone(mins) 0 👘	OPEN Set
6 🖌	Option			Synchronize Parameters	Factory Load Settings From File	Save Settings To File
[SMS Tracking]Set device settin	igs succeed!				ID Libra	ary Version:2019.5.28.01 💥

#### Note:

It is recommended to set a new super password first, because the super password is related to the security of unlocking; The default super password is 666888, which can be modified by Meitrack Manager and F22 command.Please make sure to remember the super password, and the super password cannot be quested and reset to the original value, once you forget the password, it will not be able to recover.

## **3 Product Functions**

## **3.1 Position Tracking**

- GPS + LBS positioning
- Real-time location query
- Tracking by time interval
- Tracking by distance
- Tracking by mobile phone
- Speeding alert
- Cornering report
- Geo-fence

## 3.2 Alerts

Alert	Description
Outer case removal/open alert	An alert will be generated when the K211G's outer case is removed or the
	back cover is opened.
Lock tamper alert	An alert will be generated when the lock rope is cut off.
T399G disconnected alert (LoRa	An alert will be generated when the K211G is disconnected from the
communication is required)	T399G.
Unlocking alert	An alert will be generated when you swipe an authorized RFID card to

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	unlock the K211G.
Locking alert	An alert will be generated when you swipe an authorized RFID card to
	lock the K211G.
Unlocking failure alert	An alert will be generated when the K211G fails to be unlocked by swiping
	an authorized RFID card.
Locking failure alert	An alert will be generated when the K211G fails to be locked by swiping
	an authorized RFID card.

## 3.3 Other Functions

Function	Description
Binding and unbinding	Enter the IMEI number of the T399G on Meitrack Manager software to
	bind the T399G to the K211G.
LoRa communication (optional)	Report lock status information of the K211G via LoRa.
Deep sleep mode	The K211G can be woken up by vibration, swiping RFID cards and
	sending heartbeat packets. If no event is triggered, the K211G will enter
	the deep sleep mode after five minutes (default time).
Dual SIM cards	The K211G can be installed with two Micro SIM cards and supports the
	dual SIM single standby mode.
OTA update	Online OTA firmware update
Remote unlocking or locking by	The D82 command is used to lock or unlock the K211G. You can send
commands	this command by SMS or MS03 platform.

# **4 Product Specifications**

Item		Description	
Dimension		112 mm x 195 mm x 37 mm	
Lock rope length	า	300 mm (The length can be customized as needed.)	
Weight		800g	
Power supply		DC 9–14 V; 2 A	
Material		The outer case of the device adopts PC materials.	
Backup battery		14000 mAh/3.7 V	
Power consumption		Current in standby (sleep) mode: 9 mA	
		Current in normal working mode: 95 mA	
Charging time		7.5–8 hours	
Operating temp	erature	-20°C to 55°C	
Operating humi	dity	5%–95 %	
Working hour		Power-saving mode: 78 days	
		Normal working mode: 150 hours	
Charging		Magnetic charging (DC 9 V; 2 A; fast charging)	
Water resistance rating		IP67	
Frequency	K211G-E	UMTS: 900/2100 MHz; GSM: 900/1800 MHz	



band	K211G-A	UMTS: 850/1900 MHz; GSM: 850/900/1800/1900 MHz	
	K211G-T	UMTS: 850/2100 MHz; GSM: 850/900/1800/1900 MHz	
GPS antenna		Built-in GPS antenna	
GPS sensiti	vity	-161 dB	
Positioning	accuracy	2.5 meters	
LoRa communication distance		At most 20 meters (obtained from actual tests in trucks' containers)	
(optional)			
LoRa working frequency		137–1020 MHz (433 MHz by default)	
(optional)			
LoRa antenna (optional)		Built-in spring antenna	
RFID module frequency		125 KHz	
Memory		8 MB	
SIM card installation		Flip the card slot cover to install Micro SIM cards; dual SIM cards	

## **5** Main Device and Accessories



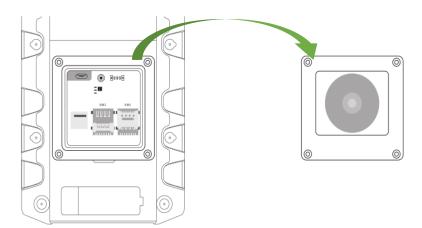
Note: Two RFID cards are standard, optional more and white type RFID card. The Power adapter(9V) can choose UL or VDE.

## 6 First Use

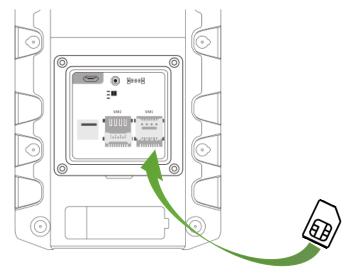
## 6.1 Installing a SIM Card

Remove the four screws from the cover and take the cover out.



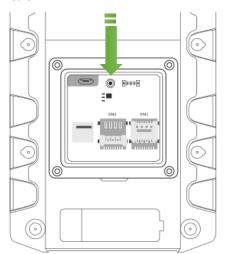


Insert a SIM card into one of the card slots (SIM1: right; SIM2: left).



## 6.2 Turning on the K211G

Press the power button for 3 seconds. Then the GPS and GSM LED indicators will blink fast, indicating that the device is turned on.



Note: When using the device for the first time, you are advised to charge the battery fully.



## 6.3 LED Indicator

LVS LED Indicator (Green)	
Steady off	The K211G is locked or is not connected to the T399G.
Steady on	The K211G is unlocked.
Blink fast (0.2 seconds on and 4.8	The K211G is connected to the T399G.
seconds off)	
GPS LED Indicator (Blue)	
Blink fast (once every 0.1 seconds)	The K211G is being initialized, or the battery power is low.
Blink fast (0.1 seconds on and 2.9	A GPS signal is received.
seconds off)	
Blink slowly (1 second on and 2	No GPS signal is received.
seconds off)	
GSM LED Indicator (Green)	
Steady on	There is an incoming call, or the subscriber you dialed is busy now.
Blink fast (once every 0.1 seconds)	The K211G is being initialized.
Blink fast (0.1 seconds on and 2.9	A GSM signal is received.
seconds off)	
Blink slowly (1 second on and 2	No GSM signal is received.
seconds off)	
CHG LED Indicator (Red)	
Steady off	The external power supply is disconnected.
Steady on	The K211G is charging.

## 6.4 Device Configuration

## 6.4.1 Installing the USB Driver

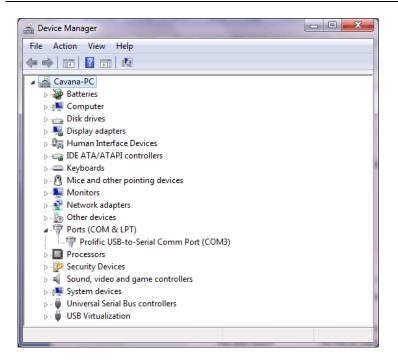
Install the USB driver on a computer with 64-bit Windows system.



After the installation is finished, connect the K211G to the computer by USB cable. If **Prolific USB-to-Serial Comm Port (COM3)** is displayed on the **Device Manager** page, the driver is installed successfully.

Note: Before connecting the K211G to the computer by USB cable, turn on the K211G first. Otherwise, it cannot be detected by Meitrack Manager.





#### 6.4.2 Configuring Device Parameters by Meitrack Manager

This section describes how to use Meitrack Manager to configure the K211G on a computer. Operation steps:

- 1. Install the USB driver and Meitrack Manager.
- 2. Connect the device to a computer by using the USB cable.



3. Run Meitrack Manager (6.0.0.9 version or later), then the following dialog box will appear:



4. Turn on the device, then Meitrack Manager will automatically detect the device model and the parameter page will appear accordingly.

For details about Meitrack Manager, see the MEITRACK Manager User Guide.



## 6.5 Binding or Unbinding the T399G

#### 6.5.1 Binding the T399G

To make the K211G and T399G communicate with each other via LoRa, bind the two devices. An IMEI number is the default binding information.

Perform the following steps to bind the T399G:

- 1. Go to the **Peripheral** page of Meitrack Manager.
- 2. Enter the IMEI number of the T399G.
- 3. Click Binding.
- 4. Click Set.

After the binding is successful, the IMEI number of the T399G will displayed on the GPS Smart Lock Information area.

Meitrack Manager 6.0.0.1	10		11100	1990				
Basic	GPS Smart Lock Information							
Basic		Power		%				
Tracking		Connect State	Disconnect 👻	Lock State	Unlock 👻	Shell State	Opened 👻	
Hacking		Latitude	22.513800	Longitude	114.057266			
GeoFence								
Georence		IMEI	868998030732297	Binding				
C Event	Refresh Unbind Clear List						Set	
Peripheral								
"								

Note: To establish LoRa communication between the K211G and the T399G, the two devices must be bound each other. Please connect the T399G to the computer, and then repeat the above operations to bind the K211G.

#### 6.5.2 Unbinding the T399G

This operation is used to disconnect the communication between the K211G and the T399G. After the unbinding is successful, the GPS positioning and GSM communication functions of the K211G will be enabled automatically. Lock status information will be uploaded to the server through the K211G.

Perform the following steps to unbind the T399G:

- 1. Go to the **Peripheral** page of Meitrack Manager.
- 2. Select the IMEI number to be unbound.
- 3. Click **Unbind**.
- 4. Click Set.

Meitrack Manager 6.0.0.	10	100000.0	- Martine Serv	Bolden b			the second	_ <b>_ x</b>
Basic	GPS Smart Lock Information 668998030732297	Power		%				
Tracking		Connect State Latitude	Disconnect + 22.513800	Lock State	Unlock * 114.057266	Shell State	Opened *	]
GeoFence		IMEI	868998030732297	Binding				
Event	Refresh Unbind Clear List						Set	
Peripheral								

Note: The binding and unbinding functions are only available for the K211G with a LoRa module.

## 6.6 Common SMS Commands

## 6.6.1 Setting GPRS Parameters – A21

SMS Sending	Password, A21, Connection mode, IP address, Port, APN, APN user name, APN password
SMS Reply	IMEI,A21,OK
Description	Connection mode = 0: function disabled.
	Connection mode = 1: function enabled; use the TCP/IP reporting mode.
	Connection mode = 2: function enabled; use the UDP reporting mode.
	IP address: IP address or domain name. A maximum of 32 bytes are supported.
	Port: a maximum of 5 digits.
	APN/APN user name/APN password: a maximum of 32 bytes respectively.
	If no user name and password are required, leave them blank.
	Note: this command can only use super password.
Example	
SMS Sending	666888,A21,1,server.meigps.com,8800 ,CMNET,,
SMS Reply	353358017784062,A21,OK

## 6.6.2 Setting a Smart Sleep Mode – A73

SMS Sending	Password,A73,0
SMS Reply	IMEI,A21,OK
Description	When the sleep level is 0, the sleep mode is disabled (default).
	When the sleep level is 1, the tracker enters the normal sleep mode. The GSM module
	always works, and the GPS module occasionally enters the sleep mode. The tracker works
	25% longer in the normal sleep mode than that in the normal working mode. This mode
	is not recommended for short interval tracking; this will affect the route precision.
	When the sleep level is 2, the tracker enters deep sleep mode. If no event (RFID, shear
	line, vibration, incoming calls, orSMSs) is triggered after five minutes, the GPS module will
	stop and the GSM module will enter sleep mode. Once an event is triggered, the GPS and
	GSM modules will be woken up.
	When the sleep level is 3, the tracker enters deep sleep mode. If no event (RFID, shear
	line , vibration) is triggered after five minutes, the GPS and GSM module will stop. Once
	an event is triggered, the GPS and GSM modules will be woken up.
Example	
SMS Sending	0000,A73,0
SMS Reply	353358017784062,A73,OK

## 6.6.3 Setting the Maximum Working Time of the Woken GPS Module - A83

SMS Sending	Password, A83, X
SMS Reply	IMEI,A83,OK
Description	X: indicates the maximum working time of the GPS module woken up by heartbeat packet. Decimal; value range: 0–255; unit: minute.
	X = 0 (default): After the GPS module is woken up by heartbeat packet, it does not work



	and the GPS is invalid.
Example	
SMS Sending	0000,A83,1
SMS Reply	353358017784062,A83,OK

## 6.6.4 Setting the SMS Time Zone - B35

SMS Sending	Password, B35, SMS minute
SMS Reply	IMEI,B35,OK
Description	The default time zone of the device is GMT 0. You can run the B35 command to change the time zone of an SMS report to the local time zone. The time zone of an SMS report is different from that of a GPRS data packet. When <b>SMS minute</b> is <b>0</b> , the time zone is GMT 0. When <b>SMS minute</b> is a value ranging from -720 to 780, set time zones.
Example	
SMS Sending	0000,B35,480
SMS Reply	353358017784062,B35,OK

## 6.6.5 Disabling the Power-off Function of the Power Button – C77

SMS Sending	Password,C77,0
SMS Reply	IMEI,C77,OK
Description	X = 1: You can turn off the device by power button.
	X = 0: You cannot turn off the device by power button.
Example	
SMS Sending	0000,C77,0
SMS Reply	353358017784062,C77,OK

## 6.6.6 Authorizing an RFID Card – D10

SMS Sending	Password,D10,RFID(1),RFID(2),,RFID(n)
SMS Reply	IMEI,D10,OK
Description	<ul><li>RFID(n): indicates the authorized RFID card number. The value ranges from 1 to 4294967295. Decimal.</li><li>A maximum of 50 RFID cards can be authorized at a time.</li><li>Note: this command can only use super password.</li></ul>
Example	
SMS Sending	666888,D10,00000001
SMS Reply	353358017784062,D10,OK

## 6.6.7 Authorizing RFID Cards in Batches – D11

SMS Sending	Password,D11,RFID card start number,n
SMS Reply	IMEI,D11,OK



Description	<ul> <li>RFID card start number: The value ranges from 1 to 4294967295. Decimal.</li> <li>n: indicates the number of RFID cards to be authorized in batches. Decimal. The parameter value ranges from 1 to 128.</li> <li>Note: this command can only use super password.</li> </ul>
Example	
SMS Sending	666888,D11,0000001,128
SMS Reply	353358017784062,D11,OK

## 6.6.8 Locking or Unlocking the K211G – D82

SMS Sending SMS Reply	Password,D82,X IMEI,D82, lock state
Description	<ul> <li>When X is 0, the K211G is locked.</li> <li>When X is 1, the K211G is unlocked.</li> <li>If the command does not contain the parameter X, the lock status will be read. X = 0:</li> <li>Locking; X = 1: Unlocking; X = 2: Lock tampering; X = 3: Lock abnormal; X = 4: Parameter error.</li> <li>Note: this command can only use super password.</li> </ul>
Example	
SMS Sending	666888,D82,0
SMS Reply	868998030003608,D82,OK

## 6.6.9 Selecting a Locking Method – D83

SMS Sending	Password, D83, X			
SMS Reply	IMEI,D83,OK			
Description	When <b>X</b> is <b>0</b> , the K211G is locked automatically.			
	When <b>X</b> is <b>1</b> , the K211G is locked by swiping RFID cards.			
	The auto locking method is selected by default. If the command does not contain the			
	parameter <b>X</b> , the locking method will be read.			
Example				
SMS Sending	0000,D83,0			
SMS Reply	868998030003608,D83,OK			

## 6.6.10 Setting the automatic authorization time of swiping the RFID card – DB0

SMS Sending	Password, DB0, X			
SMS Reply	Qcom 时间 DB0,OK			
Description	X: ranges from 1 to 10000. Decimal, Unit: seconds			
	Within the automatic authorization period of swiping the card, swiping any RFID card will			
	be automatically authorized, after the end of the automatic authorization period, the			
	working state will be back to normal.			
	Send command withot parameter means reading the remaining time.			



	Note: this command can only use super password.			
Example				
SMS Sending	666888,DB0,10			
SMS Reply	868998030003608,DB0,OK			

#### 6.6.11 Changing Super Password – F22

SMS Sending	AAAAAA,F22,BBBBBB				
SMS Reply	IME,F22,OK				
Description	Need to enter super password before setting IP and port in MM.				
	Super passwords support all SMS commands. But $\rm A21/D10/D11/D14/D15/D82/DB0/F22$				
	commands only support super password, not SMS password.				
	The default super password is 666888. The length is 6 digits.				
	AAAAAA is the original super password, BBBBBB is the new password				
	Note:				
	this command can only use super password.				
	Please make sure to remember the super password, and the super password cannot be				
	quested and reset to the original value, once you forget the password, it will not be able				
	to recover.				
Example					
SMS Sending	666888,F22,OK				
SMS Reply	868998030003608,F22,OK				

Note: For details about SMS commands, see the MEITRACK SMS Protocol.

## 7 Using the Platform

## 7.1 MS03 Tracking System

Visit http://ms03.trackingmate.com, enter the user name and password, and log in to the MS03. (Purchase the login account from your provider.)

For more information about how to add a device, see the *MEITRACK GPS Tracking System MS03 User Guide* (chapter 4 "Getting Started").

#### The MS03 supports the following functions:

- Track by time interval or distance.
- Query historical trips.
- Set polygonal geo-fences.
- Bind driver and vehicle information.
- View various reports.
- Send commands in batches.
- Support OTA updates.

For details, see the MEITRACK GPS Tracking System MS03 User Guide.

## 7.2 Authorizing RFID Cards in Batches by MS03

1. On the main interface of the MS03, choose Management.

2. On the Management window that is displayed, select Sending command from Use Normal.

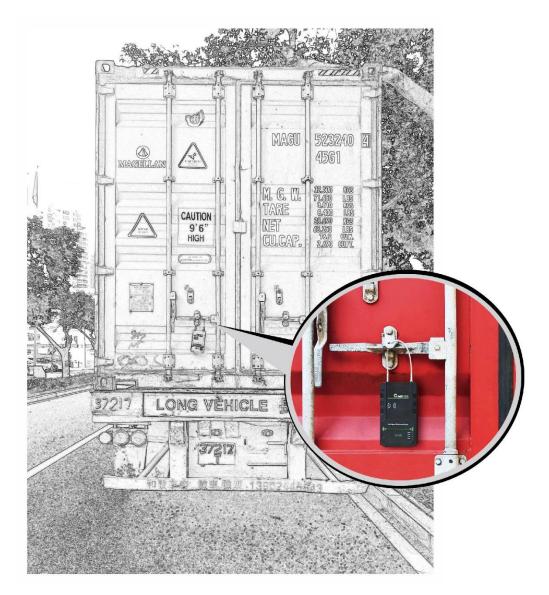
3. On the **Sending command** window that is displayed, set **Command** to **Authorize RFID cards in batches**, enter the RFID card start number and the number of cards, and click **Send command**.

If only one RFID card needs to be authorized, the number of cards is **1**. After the RFID cards are authorized successfully, you can swipe these cards to unlock and lock the K211G and record operator information.

 Sending command				• • •
3608 Q		Search key eg : GPRS,fences,A10		
Tracker name	Transmit process	Command:	Authorize RFID cards in batches	*
K211G Total(1)     K211G_3608		From the RFID number: Quantity:	11505305	\$
		2-1		Ť
8				
1				
			Send	command



## **8** Device Installation



If you have any questions, do not hesitate to email us at info@meitrack.com.