

AMP 1200

Quick Reference Guide

v 1.0

PQR-1200-1.0-E

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DOCUMENT PROPERTIES

Information

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Version Control

Version	Date	Summary of Change	Updated by
1.0	Nov 2017	Initial version	R. Gibbs

Supported Hardware & Software

Version	Software Release	Supported Hardware Model
1.0+	1.0	AMP POS 1 Series - 1200

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The following items should be found inside the original packaging:

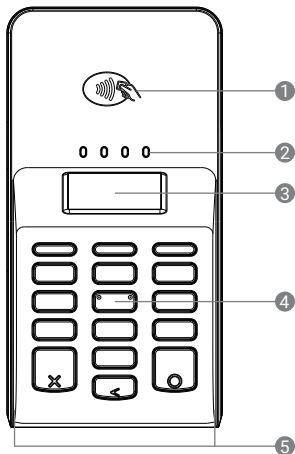
- The AMP 1200 PIN pad terminal
- Micro USB cable or RS232 cable
- Product Quick Reference Guide

1 Introduction

The AMP 1200 secure NFC PINpad is designed to instantly add contactless and PIN enabled payments to any existing POS systems. Merchants can easily connect the 1200 terminal via Micro USB or RS232 to rapidly and affordably expand their payment acceptance ability, while the EMV and PCI PTS 5.0 certifications mean they can accept payments with confidence. Featuring a 1.7" backlit LCD and adjustable display elements such as scaled text and images, the terminal can be modified to fit any merchant's payment flow to include content directly aimed at key customers. Optional customizations such as the biometric fingerprint scanner and three programmable function buttons further allow the AMP 1200 to expand and enhance existing point of sale payment options.

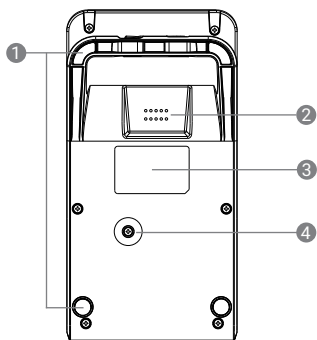
2 AMP 1200 Architecture

2.1 Top View



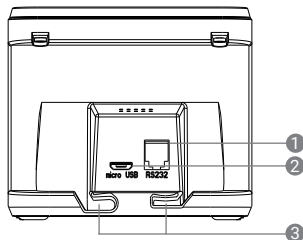
1	NFC contactless reader
2	Indicator LEDs
3	LCD display
4	Keypad
5	PIN privacy shield

2.2 Underside View



1	Built-in speakers
2	Anti-slip rubber pads
3	Identification label
4	Tamper-evident screw

2.3 Rear View & Ports



1	RS232 port
2	Micro USB port
3	Cable management

3 General Precautions

Basic care and consideration should be used when handling, operating or installing the AMP 1200 terminal. This is a secure device, with both physical and logical tamper protection, and no attempt should be made by the user to open or service the device in any way other than approved troubleshooting methods. Keep these basic guidelines in mind to prolong the longevity and functionality of your product:

- Use only the dedicated cables provided with the terminal or equally high quality RS232 and micro USB cables to avoid damage to the device's electrical components
- Avoid spills or exposure to liquids, which could cause the terminal to short circuit
- Protect the terminal from impact, including: vibration, shaking, knocks, falling objects, being dropped, etc.
- Keep the terminal from environments that produce excessive dust, humidity, high or low temperatures or electromagnetic fields
- While charging, do not attach or remove any components to avoid damage to the internal circuitry
- There are no user-serviceable internal parts or mechanisms, do not try to open, modify or repair the device
- Be aware, this terminal contains a failsafe where all internal data will be erased immediately upon detection of tampering (such as opening the housing)
- If a fault occurs, immediately disconnect the power supply, discontinue use and contact your service provider to request repairs and diagnostics

4 Powering Device On/Off

Powering On the device

First ensure that the Micro USB or RS232 cable is inserted into a known working port, then insert the cable into the correct port on the AMP 1200, the device will then power itself On.

Powering Off the device

Unplug the cable from the back of the terminal and it will power itself Off.

5 Technical Specifications

The following are specifications detailing the overall capabilities of the AMP 1200, including optional or variable elements. To obtain the specifications for your individual terminals, refer to the original sales order or your sales representative for more information.

PROCESSOR	32-bit secure processor,
MEMORY	4 MB flash, 512 KB RAM
DISPLAY	1.77 " 128 x 160 backlit LCD, 4 color LED indicator lights
CONNECTIVITY	Micro USB, 4P4C RS232
CERTIFICATION	EMV contactless level I, PCI PTS 5.0, Mastercard Contactless, Visa Paywave
CARD READER	NFC, ISO4443 A/B, Mifare
SECURITY	Master/Session and DUKPT Key Management
POWER	5V DC, 1A
PHYSICAL	(157x82x71 mm) - (6.2x3.2x2.8") LxWxH
BUTTONS	10 alphanumeric keys, 3 function keys
BIOMETRICS	Optional fingerprint scanner
OTHER	Optional built-in speakers, Buzzer with warning tone, voice function support
WEIGHT	230 g (0.5 lbs)
OPERATION	0°C ~ 50°C (32°F ~ 122°F), 10% -90% humidity (non-condensing)
STORAGE	-20°C ~ 60°C (-4°F ~ 140°F), 5% -95% humidity (non-condensing)

6 Troubleshooting Common Problems

If problems occur with the terminal, try these simple troubleshooting methods to correct the fault, or contact a service representative to further diagnose the issue.

Problem	Troubleshooting
Nothing displayed on screen	Ensure the power is properly connected at both ends of the cable
Contactless card data read error	Confirm that the card supports contactless communication Check whether the card is properly aligned above the contactless reader area

If problems persist after completing these troubleshooting procedures, please contact your sales or service representative. **Do not** attempt to open the terminal or make further repairs.