

OPERATION THEROY

FCCID: VRF-BL01

Introduction :

The Blinger is a general purpose handheld device to be used in personal financial transactions, there are specific applications to be loaded in the product depending on the user's requirements.

Principle of operation :

The product is controlled by an ARM MCU (micro control unit), ARM 7 TDMI RISC processor core, it has a magnetic header to read contents of magnetic card when user slide it in the back case slot, it will then show the contents On it's 2" Monochrome LCD display, the user can use a track wheel to navigate the contents.

The Blinger uses two wireless communication technologies to send and receive data, when the device send and receive data from Bling network data center, the ReFlex module (Advantra Karli AR100) inside the device will be activated for data transmission, the transmit frequency ranges from 929~932MHz & 935~942MHz, and the receive frequency ranges from 896~902MHz.

When the device needs to communicate with a nearby Blinger device, it will activate on board short range RF IC (Chipcon CC1100), the two devices will be approaching each other close enough, almost touching their respective red illuminated "nose rubbing" corners, after pressing their P2P lateral buttons, the corners turns green while they recognize each other, then each device can send the display contents to the other device using a softkey. This short range RF frequency the device using ranges from 902~928MHz.