# FW Update with RS-485 02S, x55, 9xx, and K35

## **Technical Note**

### Summary

This technical note gives the procedure to update FW for O2S and x55 readers with HyperTerminal and RS-485 communication.

### Connection

To do this procedure it is necessary to use a Rosslare MD-14S/U RS-232 to RS-485 converter.

- 1. Connect the MD-14S/U orange wire to the reader's RS-485 A terminal or blue wire
- 2. Connect the MD-14S/U brown wire to the reader's RS-485 B terminal or gray wire.
- 3. For a AY-Y9xxBT and AY-K35 Readers connect the MD-14S/U to the reader's black (-) wire.

If the MD-14S is in use, the MD-14 red and black wires must be connected to a 12 VDC power.

#### **FW Update Process**

1. Launch the HyperTerminal on your PC.



If your OS does not have HyperTerminal, you can download it HERE.

- 2. Select the COM port to which the MD-14S/U is connected.
- 3. Set the COM port properties as follows:
  - Bits per second: 57600
  - DATA bits: 8
  - Parity: None
  - Stop Bits: 1
  - Flow control: None

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- 4. When connected, go to **Transfer > Send File**.
- 5. Browse to the applicable \*.bin file and select it.
- 6. Set the protocol to **Ymodem**.

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Folder: C:\Use Filename:	rs\mickey.R(	OSSLARE	1\Desktop	\tools\	hypert	emina
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Ymodem						~
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- 7. Click Send.
- 8. Supply power to the reader.

You can see the progress in the File window.

Ymodem fi	le send for 1
Sending:	C:\Users\mickey.ROSSLARE1\Desktop\tools\hyperterminal\AYC-x6355v
Packet:	6 Error checking: CRC File size: 49K
Retries:	0 Total retries: 0 Files: 1 of 1
Last error:	
<b></b>	
File:	3K of 49K
Elapsed:	00:00:02 Remaining: Throughput:
	Cancel cps/bps

9. When the process is complete, can see the reader version number on the HyperTerminal negotiation screen.

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<b>↑</b> <b>↑</b> <b>∀</b> C-x6355V00_62_RLLC <b>↓</b> _			~