

Device boot

Configure device:
I/O pins, timer, UART,
enable interrupts

Handle session

Disable read head

Error occurred
during session

No

Yes

Send error
message

Reset error
state

Handle
session

Await start
message

Send confirmation
message

Enable read head

Initialize read
process

Error

Obtain length

Error

Send length
(async)

Error

Read finished

Yes

No

Read byte

Error

Send byte
(async)

Error

wait for paper to move
from under the roller

Send finish message

Return

Return