

Appendix1 Command set  
Magnetic Card/Reader Writer EL03-CRW

Function	Command	Format of Data Return	Remark
Reset	DEL (7FH)	-----	
Liaison	ESC (1BH)	ACK (06H)	
Read card	----	<b>Correct:</b> STX% 1st track data?; 2nd track data?+3rd track data? ETX <span style="border: 1px solid black; padding: 0 2px;">BCC</span> (02H25H 1st track data 3FH3BH 2nd track data 3FH25H 3rd track data 3F03H <span style="border: 1px solid black; padding: 0 2px;">BCC</span> ) <b>Error:</b> NAK (15H)	
Write card	STX% 1st track data ?; 2nd track data? + 3rd track data? ETX <span style="border: 1px solid black; padding: 0 2px;">BCC</span> (02H25H 1st track data 3FH3BH 2nd track data 3FH2BH 3rd track data 3FH03H <span style="border: 1px solid black; padding: 0 2px;">BCC</span> )	<b>Correct:</b> STX% 1st track data? 2nd track data <span style="border: 1px solid black; padding: 0 2px;">BCC</span> (02H25H 1st track data 3FH3BH 2nd track data 3FH2BH 3rd track data 3FH03H <span style="border: 1px solid black; padding: 0 2px;">BCC</span> ) <b>Error:</b> NAK (15H)	

Notes:

(1) EL03-CRW series magnetic card reader/writer exchanges the Information with the host computer in the way of data package. The format of the data package is the following: STX% 1st track data? 2nd track data ?+ 3rd track data ? ETX BCC Where STX (02H) is the header flag of the data package; ETX (03H) is the trailer flag; “%(25H)”, “;(3B)”, “+(2B)” is the start character of 1st, 2nd, 3rd track respectively; “?(3FH)” is the end character of each track data; BCC is the check byte of the package (NOR Sum) including ETX(03H) except STX(02H).

(2) In read operation, each track data can be put into the data package only in the correct reading and be transferred up to the host computer (the start and end character of the corresponding track is added to the package), the operation returns “NAK (15H)” when the reading for all three track data fails.

(3) In write operation, the host computer adds the start/end Character on the corresponding track data, puts it into the data package and transfer down to the

reader/writer. If the write operation is correct, the written-in data are read out and return to the host computer in the way of data package. If the write of some track is mistaken, then the operation fails and returns "NAK (15H)".

(4) When the setting switch SW3 is at "ON" position, BCC check is not available. So the reader/writer will omit the BCC check byte in acceptance of data packages, consequently the returned data package will not include the BCC check byte.