

1 Y SOFT CARD READER PROTOCOLS

Reader protocol can be specified if different than default operation mode of the card reader is required. The table below shows a list of card readers and their respective protocols.

The first listed protocol in **bold** is the default one. If any other than listed protocol is selected then the selection may be invalid and the default protocol will be used.

Protocols listed in *italics* are special testing protocols intended as an aid for card testing and should not be used for user identification because some functional limitations may apply.

Please note that the list is cross-platform (TP/UL/USBv2/USBv3/EPA) and may contain readers that are not currently available on every Y Soft product or it may contain readers that are no longer available but need to be supported for backward compatibility.

List of supported readers and protocols as of LibReader ver. **1.3.31**:

Reader	Available protocols
B-010 - RFID 125 KHz	Protocol 4 - GID 120 Protocol 2 - Generic serial 96008N1 Protocol 148 - Custom 11/001 Protocol 150 - Custom 11/003 Protocol 170 - Custom 13/001 Protocol 171 - Custom 13/002

Reader	Available protocols
B-015 - Reader 3 LF	Protocol 1220 - LF UIN Protocol 90 - EM4000 compatible Protocol 94 - EM4000 compatible cont. Protocol 88 - EM4000 compatible w/LRC (96008N1 compatible) Protocol 91 - Prox-lite/Casi-Rusco Protocol 92 - Paradox/PosiProx Protocol 89 - Nedap Protocol 87 - Awid Protocol 86 - Pyramid Protocol 85 - Deister Protocol 84 - Datasec Protocol 83 - G-Prox Protocol 82 - ioProx label Protocol 121 - EM4050 f/64 std. read mode Protocol 96 - PAC/KeyPAC Protocol 120 - URMET/FDI <i>Protocol 117 - ASK/FSK testing</i> Protocol 148 - Custom 11/001 Protocol 150 - Custom 11/003 Protocol 170 - Custom 13/001 Protocol 171 - Custom 13/002 Protocol 177 - Custom 13/008

Reader	Available protocols
B-016 - 125kHz ASK FSK	Protocol 1220 - LF UIN Protocol 90 - EM4000 compatible Protocol 94 - EM4000 compatible cont. Protocol 88 - EM4000 compatible w/LRC (96008N1 compatible) Protocol 91 - Prox-lite/Casi-Rusco Protocol 92 - Paradox/PosiProx Protocol 89 - Nedap Protocol 87 - Awid Protocol 86 - Pyramid Protocol 85 - Deister Protocol 84 - Datasec Protocol 83 - G-Prox Protocol 82 - ioProx label Protocol 121 - EM4050 f/64 std. read mode Protocol 96 - PAC/KeyPAC Protocol 120 - URMET/FDI <i>Protocol 117 - ASK/FSK testing</i> Protocol 148 - Custom 11/001 Protocol 150 - Custom 11/003 Protocol 170 - Custom 13/001 Protocol 171 - Custom 13/002 Protocol 177 - Custom 13/008
B-017 - Multireader LF	Protocol 1220 - LF UIN Protocol 125 - EM4000 compat. + HID Prox Wallb. Protocol 90 - EM4000 compatible Protocol 94 - EM4000 compatible cont. Protocol 88 - EM4000 compatible w/LRC (96008N1 compatible) Protocol 91 - Prox-lite/Casi-Rusco Protocol 92 - Paradox/PosiProx Protocol 89 - Nedap Protocol 87 - Awid Protocol 86 - Pyramid Protocol 85 - Deister Protocol 84 - Datasec Protocol 83 - G-Prox Protocol 82 - ioProx label Protocol 121 - EM4050 f/64 std. read mode Protocol 96 - PAC/KeyPAC Protocol 120 - URMET/FDI Protocol 35 - HID Prox Wallb. Protocol 5 - HID Prox W26 Protocol 6 - HID Prox W27 Protocol 7 - HID Prox W32

Reader	Available protocols
	Protocol 8 - HID Prox W34 Protocol 9 - HID Prox W37 Protocol 27 - HID Prox W40 Protocol 46 - HID Prox W40 w/o par. Protocol 10 - HID Prox W44 Protocol 56 - HID Prox Wallb. continuous Protocol 1005 - HID Prox UDF W26 Protocol 1006 - HID Prox UDF W27 Protocol 1007 - HID Prox UDF W32 Protocol 1008 - HID Prox UDF W34 Protocol 1009 - HID Prox UDF W37 Protocol 1027 - HID Prox UDF W40 Protocol 1046 - HID Prox UDF W40 w/o par. Protocol 1010 - HID Prox UDF W44 Protocol 1035 - HID Prox UDF Wallb. Protocol 1056 - HID Prox UDF Wallb. cont. <i>Protocol 117 - ASK/FSK testing</i> Protocol 148 - Custom 11/001 Protocol 150 - Custom 11/003 Protocol 157 - Custom 11/010 Protocol 170 - Custom 13/001 Protocol 171 - Custom 13/002 Protocol 174 - Custom 13/005 Protocol 177 - Custom 13/008 Protocol 179 - Custom 13/010

Reader	Available protocols
B-018 - Multireader LF + HF v2	Protocol 1220 - LF UIN + HF UIN Protocol 105 - HF UIN only Protocol 1221 - LF UIN only Protocol 90 - EM4000 compat.+ HF UIN Protocol 94 - EM4000 compat. + HF UIN cont. Protocol 118 - EM4000 compat.+ ISO14443A UIN Protocol 125 - EM4000 compat.+ HID Prox + HF UIN Protocol 91 - Prox-lite/Casi-Rusco + HF UIN Protocol 92 - Paradox/PosiProx + HF UIN Protocol 89 - Nedap + HF UIN Protocol 87 - Awid + HF UIN Protocol 86 - Pyramid + HF UIN Protocol 85 - Deister + HF UIN Protocol 84 - Datasec + HF UIN Protocol 83 - G-Prox + HF UIN Protocol 82 - ioProx label + HF UIN Protocol 121 - EM4050 f/64 std. mode + HF UIN Protocol 96 - PAC/KeyPAC + HF UIN Protocol 120 - URMET/FDI + HF UIN Protocol 35 - HID Prox Wallb. + HF UIN Protocol 124 - HID Prox Wallb. + HF UIN rev. endian Protocol 5 - HID Prox W26 + HF UIN Protocol 6 - HID Prox W27 + HF UIN Protocol 7 - HID Prox W32 + HF UIN Protocol 8 - HID Prox W34 + HF UIN Protocol 9 - HID Prox W37 + HF UIN Protocol 27 - HID Prox W40 + HF UIN Protocol 46 - HID Prox W40 w/o par. + HF UIN Protocol 10 - HID Prox W44 + HF UIN Protocol 1005 - HID Prox UDF W26 + HF UIN Protocol 1006 - HID Prox UDF W27 + HF UIN Protocol 1007 - HID Prox UDF W32 + HF UIN Protocol 1008 - HID Prox UDF W34 + HF UIN Protocol 1009 - HID Prox UDF W37 + HF UIN Protocol 1027 - HID Prox UDF W40 + HF UIN Protocol 1046 - HID Prox UDF W40 w/o par. + HF UIN Protocol 1010 - HID Prox UDF W44 + HF UIN Protocol 1035 - HID Prox UDF Wallb. + HF UIN <i>Protocol 117 - ASK/FSK testing + HF UIN</i>

Reader	Available protocols
B-019 - Reader 3 MF	Protocol 1220 - LF UIN + HF UIN Protocol 1222 - LF UIN + HF UIN rev. endian Protocol 1221 - LF UIN only Protocol 105 - HF UIN only Protocol 106 - HF UIN only rev. endian Protocol 1500 - HF UIN only continuous Protocol 1518 - ISO14443A UIN only Protocol 90 - EM4000 compat.+ HF UIN Protocol 94 - EM4000 compat. + HF UIN cont. Protocol 118 - EM4000 compat.+ ISO14443A UIN Protocol 91 - Proxlite/Casi-Rusco + HF UIN Protocol 92 - Paradox/PosiProx + HF UIN Protocol 89 - Nedap + HF UIN Protocol 87 - Awid + HF UIN Protocol 86 - Pyramid + HF UIN Protocol 85 - Deister + HF UIN Protocol 84 - Datasec + HF UIN Protocol 83 - G-Prox + HF UIN Protocol 82 - ioProx label + HF UIN Protocol 121 - EM4050 f/64 std. mode + HF UIN Protocol 96 - PAC/KeyPAC + HF UIN Protocol 120 - URMET/FDI + HF UIN <i>Protocol 117 - ASK/FSK testing + HF UIN</i> Protocol 128 - Custom 06/233 Protocol 135 - Custom 07/006 Protocol 145 - Custom 10/003 Protocol 149 - Custom 11/002 Protocol 152 - Custom 11/005 Protocol 155 - Custom 11/008 Protocol 160 - Custom 11/013 Protocol 161 - Custom 11/014 Protocol 162 - Custom 12/001 Protocol 164 - Custom 12/003 Protocol 166 - Custom 12/005 Protocol 168 - Custom 12/007 Protocol 169 - Custom 12/008 Protocol 188 - Custom 14/002 Protocol 190 - Custom 14/004 Protocol 191 - Custom 14/005 Protocol 192 - Custom 15/001
B-020 - Mot/Ind W26	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto Protocol 172 - Custom 13/003

Reader	Available protocols
B-020-01 - Mot/Ind CEZ	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto
B-020-02 - Mot/Ind HZS Ostrava	Protocol 35 - Wiegand all bits auto
B-020-03 - Mot/Ind SCVK	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto
B-020-04 - Mot/Ind custom	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto
B-020-05 - Mot/Ind custom	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto
B-021 - Mot/Ind W27	Protocol 6 - Wiegand 27 Protocol 35 - Wiegand all bits auto
B-022 - Mot/Ind ABA Track II	Protocol 19 - ABA 2
B-024 - Mot/Ind Lite	Protocol 5 - Wiegand 26 Protocol 35 - Wiegand all bits auto
B-026 - Mot/Ind KANTECH	Protocol 7 - Wiegand 32
B-027 - Indala UIN	Protocol 1101 - UIN1 short Protocol 1102 - UIN2 short Protocol 1103 - UIN1 long Protocol 1104 - UIN2 long Protocol 1105 - W26 - format 10022 Protocol 1106 - W26 Wallb.- format 10022 Protocol 1107 - W27 - format 10251 Protocol 1108 - W27 Wallb.- format 10251 Protocol 1109 - ABA2 - format 11037 Protocol 1110 - Lite - format 17531 Protocol 1111 - Lite Wallb.- format 17531 Protocol 1112 - Kantech - format 15024 Protocol 1113 - ESMI - format 1771x Protocol 1114 - ECR W26 Wallb. - format 10324 Protocol 1115 - ECR ABA2 - format 11045 Protocol 1130 - ASP+ default key Wiegand Protocol 1131 - ASP+ default key ABA2 Protocol 1132 - ASP+ default key Serial Protocol 172 - Custom 13/003 Protocol 181 - Custom 13/012 Protocol 182 - Custom 13/013 Protocol 183 - Custom 13/014 Protocol 184 - Custom 13/015

Reader	Available protocols
B-028 - Reader 3 Indala	Protocol 1101 - UIN1 short Protocol 1102 - UIN2 short Protocol 1103 - UIN1 long Protocol 1104 - UIN2 long Protocol 1105 - W26 - format 10022 Protocol 1106 - W26 Wallb.- format 10022 Protocol 1107 - W27 - format 10251 Protocol 1108 - W27 Wallb.- format 10251 Protocol 1109 - ABA2 - format 11037 Protocol 1110 - Lite - format 17531 Protocol 1111 - Lite Wallb.- format 17531 Protocol 1112 - Kantech - format 15024 Protocol 1113 - ESMI - format 1771x Protocol 1114 - ECR W26 Wallb. - format 10324 Protocol 1115 - ECR ABA2 - format 11045 Protocol 1130 - ASP+ default key Wiegand Protocol 1131 - ASP+ default key ABA2 Protocol 1132 - ASP+ default key Serial Protocol 172 - Custom 13/003 Protocol 181 - Custom 13/012 Protocol 182 - Custom 13/013 Protocol 183 - Custom 13/014 Protocol 184 - Custom 13/015
B-030 - HID Prox	Protocol 35 - Wiegand all bits auto Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44 Protocol 56 - Wiegand all bits continuous Protocol 157 - Custom 11/010 Protocol 174 - Custom 13/005 Protocol 179 - Custom 13/010

Reader	Available protocols
B-031 - HID UDF	Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44 Protocol 35 - Wiegand all bits auto Protocol 56 - Wiegand all bits continuous
B-033 - HID iClass	Protocol 35 - Wiegand all bits auto Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44 Protocol 37 - iClass UIN Protocol 168 - Custom 12/007
B-034 - HID Felica	Protocol 35 - Felica UIN
B-035 - Prox-lite	Protocol 48 - Prox-lite
B-036 - NexWatch/NexKey	Protocol 2 - Card UIN

Reader	Available protocols
B-037 - Legic Advant + HID Prox	Protocol 49 - Legic UIN+HID Prox Protocol 119 - Legic UIN only Protocol 35 - HID Prox only Protocol 113 - Legic UIN rev. endian+HID Prox Protocol 74 - Legic Advant UIN+HID Prox Protocol 107 - Legic Prime UIN+HID Prox Protocol 80 - FIPS201 ID from PIV-II+HID Prox Protocol 108 - Legic short KGH seg. 1+HID Prox Protocol 109 - Legic short KGH seg. 2+HID Prox Protocol 110 - Legic short KGH seg. 3+HID Prox Protocol 111 - Legic short KGH seg. 4+HID Prox Protocol 75 - Interflex card ID+HID Prox Protocol 64 - Legic KGH seg. 1+HID Prox Protocol 65 - Legic KGH seg. 2+HID Prox Protocol 66 - Legic KGH seg. 3+HID Prox Protocol 67 - Legic KGH seg. 4+HID Prox Protocol 29 - Legic KGH seg. 1 compat.+HID Prox Protocol 30 - Legic KGH seg. 2 compat.+HID Prox Protocol 31 - Legic KGH seg. 3 compat.+HID Prox Protocol 32 - Legic KGH seg. 4 compat.+HID Prox Protocol 140 - Custom 08/004

Reader	Available protocols
B-038 - HID Prox v3	Protocol 35 - Wiegand all bits auto Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44 Protocol 56 - Wiegand all bits continuous Protocol 1005 - UDF Wiegand 26 Protocol 1006 - UDF Wiegand 27 Protocol 1007 - UDF Wiegand 32 Protocol 1008 - UDF Wiegand 34 Protocol 1009 - UDF Wiegand 37 Protocol 1027 - UDF Wiegand 40 Protocol 1046 - UDF Wiegand 40 w/o parity Protocol 1010 - UDF Wiegand 44 Protocol 1035 - UDF Wiegand all bits auto Protocol 1056 - UDF Wiegand all bits continuous Protocol 157 - Custom 11/010 Protocol 174 - Custom 13/005 Protocol 179 - Custom 13/010
B-039 - Reader 3 LF+	Protocol 1220 - LF UIN Protocol 125 - EM4000 compat. + HID Prox Wallb. Protocol 90 - EM4000 compatible Protocol 94 - EM4000 compatible cont. Protocol 88 - EM4000 compatible w/LRC (96008N1 compatible) Protocol 91 - Proxlite/Casi-Rusco Protocol 92 - Paradox/PosiProx Protocol 89 - Nedap Protocol 87 - Awid Protocol 86 - Pyramid Protocol 85 - Deister Protocol 84 - Datasec Protocol 83 - G-Prox Protocol 82 - ioProx label Protocol 121 - EM4050 f/64 std. read mode Protocol 96 - PAC/KeyPAC Protocol 120 - URMET/FDI Protocol 35 - HID Prox Wallb. Protocol 5 - HID Prox W26 Protocol 6 - HID Prox W27

Reader	Available protocols
	Protocol 7 - HID Prox W32 Protocol 8 - HID Prox W34 Protocol 9 - HID Prox W37 Protocol 27 - HID Prox W40 Protocol 46 - HID Prox W40 w/o par. Protocol 10 - HID Prox W44 Protocol 56 - HID Prox Wallb. continuous Protocol 1005 - HID Prox UDF W26 Protocol 1006 - HID Prox UDF W27 Protocol 1007 - HID Prox UDF W32 Protocol 1008 - HID Prox UDF W34 Protocol 1009 - HID Prox UDF W37 Protocol 1027 - HID Prox UDF W40 Protocol 1046 - HID Prox UDF W40 w/o par. Protocol 1010 - HID Prox UDF W44 Protocol 1035 - HID Prox UDF Wallb. Protocol 1056 - HID Prox UDF Wallb. cont. <i>Protocol 117 - ASK/FSK testing</i> Protocol 148 - Custom 11/001 Protocol 150 - Custom 11/003 Protocol 157 - Custom 11/010 Protocol 170 - Custom 13/001 Protocol 171 - Custom 13/002 Protocol 174 - Custom 13/005 Protocol 177 - Custom 13/008 Protocol 179 - Custom 13/010
B-040 - MIFARE	Protocol 25 - Mifare UIN Protocol 106 - Mifare UIN rev. endian Protocol 100 - Mifare UIN continuous Protocol 128 - Custom 06/233 Protocol 135 - Custom 07/006 Protocol 145 - Custom 10/003 Protocol 149 - Custom 11/002 Protocol 152 - Custom 11/005 Protocol 155 - Custom 11/008 Protocol 160 - Custom 11/013 Protocol 161 - Custom 11/014 Protocol 162 - Custom 12/001 Protocol 164 - Custom 12/003 Protocol 169 - Custom 12/008 Protocol 190 - Custom 14/004

Reader	Available protocols
B-040-01 - MIFARE CEZ	Protocol 130 - Custom 07/001 Protocol 25 - Mifare UIN
B-040-02 - Mifare custom	Protocol 2 - Card ID
B-040-03 - Mifare custom	Protocol 158 - Custom 11/011 Protocol 25 - Mifare UIN
B-041 - MultiReader LF + HF	Protocol 1220 - LF UIN + HF UIN Protocol 90 - EM4000 compat.+ HF UIN Protocol 94 - EM4000 compat. + HF UIN cont. Protocol 118 - EM4000 compat.+ ISO14443A UIN Protocol 1221 - LF UIN only Protocol 105 - HF UIN only Protocol 91 - Prox-lite/Casi-Rusco + HF UIN Protocol 92 - Paradox/PosiProx + HF UIN Protocol 89 - Nedap + HF UIN Protocol 87 - Awid + HF UIN Protocol 86 - Pyramid + HF UIN Protocol 85 - Deister + HF UIN Protocol 84 - Datasec + HF UIN Protocol 83 - G-Prox + HF UIN Protocol 82 - ioProx label + HF UIN Protocol 121 - EM4050 f/64 std. mode + HF UIN Protocol 96 - PAC/KeyPAC + HF UIN Protocol 120 - URMET/FDI + HF UIN <i>Protocol 117 - ASK/FSK testing + HF UIN</i>
B-042 - MIFARE+RFID 125 kHz	Protocol 21 - Dual RFID+Mifare

Reader	Available protocols
B-044 - Legic Advant	Protocol 26 - Legic UIN Protocol 113 - Legic UIN rev. endian Protocol 29 - Legic KGH seg. 1 Protocol 30 - Legic KGH seg. 2 Protocol 31 - Legic KGH seg. 3 Protocol 32 - Legic KGH seg. 4 Protocol 108 - Legic short KGH seg. 1 Protocol 109 - Legic short KGH seg. 2 Protocol 110 - Legic short KGH seg. 3 Protocol 111 - Legic short KGH seg. 4 Protocol 75 - Interflex card ID Protocol 129 - Custom 06/266 Protocol 132 - Custom 07/003 Protocol 134 - Custom 07/005 Protocol 140 - Custom 08/004 Protocol 141 - Custom 08/005 Protocol 151 - Custom 11/004 Protocol 153 - Custom 11/006 Protocol 154 - Custom 11/007 Protocol 156 - Custom 11/009 Protocol 163 - Custom 12/002 Protocol 165 - Custom 12/004
B-045 - MULTI ISO	Protocol 44 - Multi ISO UIN Protocol 106 - UIN rev. endian Protocol 72 - ASK-RFID UIN Protocol 146 - Custom 10/004 Protocol 186 - Custom 13/017
B-046 - UHF ETSI	Protocol 126 - ISO-18000 Type C UIN Protocol 187 - Custom 14/001
B-047 - Reader 3 Multi ISO	Protocol 44 - Multi ISO UIN Protocol 106 - UIN rev. endian Protocol 72 - ASK-RFID UIN Protocol 146 - Custom 10/004 Protocol 186 - Custom 13/017

Reader	Available protocols
B-049 - Legic Advant v2	Protocol 49 - Legic UIN Protocol 113 - Legic UIN rev. endian Protocol 74 - Legic Advant UIN Protocol 107 - Legic Prime UIN Protocol 80 - FIPS201 ID from PIV-II Protocol 64 - Legic KGH seg. 1 Protocol 65 - Legic KGH seg. 2 Protocol 66 - Legic KGH seg. 3 Protocol 67 - Legic KGH seg. 4 Protocol 29 - Legic KGH seg. 1 compat. Protocol 30 - Legic KGH seg. 2 compat. Protocol 31 - Legic KGH seg. 3 compat. Protocol 32 - Legic KGH seg. 4 compat. Protocol 108 - Legic short KGH seg. 1 Protocol 109 - Legic short KGH seg. 2 Protocol 110 - Legic short KGH seg. 3 Protocol 111 - Legic short KGH seg. 4 Protocol 75 - Interflex card ID Protocol 129 - Custom 06/266 Protocol 132 - Custom 07/003 Protocol 134 - Custom 07/005 Protocol 140 - Custom 08/004 Protocol 141 - Custom 08/005 Protocol 151 - Custom 11/004 Protocol 153 - Custom 11/006 Protocol 154 - Custom 11/007 Protocol 156 - Custom 11/009 Protocol 159 - Custom 11/012 Protocol 163 - Custom 12/002 Protocol 165 - Custom 12/004 Protocol 173 - Custom 13/004 Protocol 175 - Custom 13/006
B-050 - Unique	Protocol 14 - All tags slow Protocol 15 - IDROA Protocol 16 - IDROB Protocol 17 - IDROC Protocol 18 - IDROD Protocol 28 - IDROE Protocol 51 - IDROG Protocol 136 - Custom 07/007 Protocol 189 - Custom 14/003

Reader	Available protocols
B-051 - Reader 3 Unique	Protocol 14 - All tags slow Protocol 15 - IDROA Protocol 16 - IDROB Protocol 17 - IDROC Protocol 18 - IDROD Protocol 28 - IDROE Protocol 51 - IDROG Protocol 136 - Custom 07/007 Protocol 189 - Custom 14/003
B-052 - TIRIS 134kHz	Protocol 22 - Tiris
B-053 - Idesco	Protocol 81 - Idesco ID-code
B-054 - Reader 3 TIRIS	Protocol 22 - Tiris
B-060 - COTAG	Protocol 23 - Cotag Protocol 97 - Cotag no batt. check Protocol 180 - Custom 13/011
B-061 - Reader 3 Cotag	Protocol 23 - Cotag Protocol 97 - Cotag no batt. check Protocol 180 - Custom 13/011
B-062 - ID-KARTA	Protocol 2 - Generic serial
B-063 - Reader 3 Inside Contactless	Protocol 68 - Inside Contactless UIN Protocol 69 - ISO 14443A-3 UIN Protocol 70 - ISO 14443B-3 UIN Protocol 71 - ISO 15693-3 UIN Protocol 72 - ASK-RFID UIN Protocol 73 - Felica UIN Protocol 143 - Custom 10/001 Protocol 146 - Custom 10/004 Protocol 186 - Custom 13/017
B-065 - Reader 3 MF+	Protocol 1220 - LF UIN + HF UIN Protocol 1222 - LF UIN + HF UIN rev. endian Protocol 1221 - LF UIN only Protocol 105 - HF UIN only Protocol 106 - HF UIN only rev. endian Protocol 1500 - HF UIN only continuous Protocol 1518 - ISO14443A UIN only Protocol 125 - EM4000 compat.+ HID Prox + HF UIN Protocol 90 - EM4000 compat.+ HF UIN Protocol 94 - EM4000 compat. + HF UIN cont. Protocol 118 - EM4000 compat.+ ISO14443A UIN

Reader	Available protocols
	Protocol 91 - Proxlite/Casi-Rusco + HF UIN Protocol 92 - Paradox/PosiProx + HF UIN Protocol 89 - Nedap + HF UIN Protocol 87 - Awid + HF UIN Protocol 86 - Pyramid + HF UIN Protocol 85 - Deister + HF UIN Protocol 84 - Datasec + HF UIN Protocol 83 - G-Prox + HF UIN Protocol 82 - ioProx label + HF UIN Protocol 121 - EM4050 f/64 std. mode + HF UIN Protocol 96 - PAC/KeyPAC + HF UIN Protocol 120 - URMET/FDI + HF UIN Protocol 35 - HID Prox + HF UIN Protocol 124 - HID Prox + HF UIN rev. endian Protocol 1035 - HID Prox UDF + HF UIN Protocol 1201 - HID iClass + ISO14443A UIN compat. Protocol 1202 - HID iClass + HID Prox + ISO14443A UIN compat. Protocol 1203 - HID iClass + ISO14443A UIN Protocol 1204 - HID iClass + HID Prox + ISO14443A UIN Protocol 1210 - HID iClass + HID SIO Protocol 1211 - HID SIO only Protocol 1212 - HID iClass + HID SIO + HID Prox Protocol 1213 - HID iClass + HID SIO + HID Prox + EM4000 Protocol 37 - HID iClass UIN Protocol 76 - HID iClass UIN + HID Prox Protocol 93 - HID Prox only Protocol 80 - FIPS201 ID from PIV-II Protocol 1070 - CEPAS CAN <i>Protocol 117 - LF testing + HID SIO + HF UIN</i> Protocol 128 - Custom 06/233 Protocol 135 - Custom 07/006 Protocol 145 - Custom 10/003 Protocol 149 - Custom 11/002 Protocol 152 - Custom 11/005 Protocol 155 - Custom 11/008 Protocol 160 - Custom 11/013 Protocol 161 - Custom 11/014 Protocol 162 - Custom 12/001 Protocol 164 - Custom 12/003 Protocol 166 - Custom 12/005 Protocol 168 - Custom 12/007 Protocol 169 - Custom 12/008 Protocol 188 - Custom 14/002 Protocol 190 - Custom 14/004

Reader	Available protocols
	Protocol 191 - Custom 14/005 Protocol 192 - Custom 15/001
B-066 - HID Prox+HID iClass	Protocol 35 - Wiegand all bits auto Protocol 37 - iClass UIN Protocol 76 - iClass UIN + Wieg. all bits Protocol 77 - Wieg. all bits + iClass UIN Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44
B-067 - Inside Contactless	Protocol 68 - Inside Contactless UIN Protocol 69 - ISO 14443A-3 UIN Protocol 70 - ISO 14443B-3 UIN Protocol 71 - ISO 15693-3 UIN Protocol 72 - ASK-RFID UIN Protocol 73 - Felica UIN Protocol 143 - Custom 10/001 Protocol 146 - Custom 10/004 Protocol 186 - Custom 13/017
B-071 - External reader kit	Protocol 2 - Generic serial 96008N1 Protocol 3 - Generic serial continuous Protocol 35 - Wiegand all bits auto Protocol 5 - Wiegand 26 Protocol 6 - Wiegand 27 Protocol 7 - Wiegand 32 Protocol 8 - Wiegand 34 Protocol 9 - Wiegand 37 Protocol 27 - Wiegand 40 Protocol 46 - Wiegand 40 w/o parity Protocol 10 - Wiegand 44 Protocol 19 - ABA 2

Reader	Available protocols
B-073 - Reader 3 MF SAM	Protocol 1220 - LF UIN + HF UIN Protocol 1222 - LF UIN + HF UIN rev. endian Protocol 1221 - LF UIN only Protocol 105 - HF UIN only Protocol 106 - HF UIN only rev. endian Protocol 1500 - HF UIN only continuous Protocol 1518 - ISO14443A UIN only Protocol 90 - EM4000 compat.+ HF UIN Protocol 94 - EM4000 compat. + HF UIN cont. Protocol 118 - EM4000 compat.+ ISO14443A UIN Protocol 91 - Proxlite/Casi-Rusco + HF UIN Protocol 92 - Paradox/PosiProx + HF UIN Protocol 89 - Nedap + HF UIN Protocol 87 - Awid + HF UIN Protocol 86 - Pyramid + HF UIN Protocol 85 - Deister + HF UIN Protocol 84 - Datasec + HF UIN Protocol 83 - G-Prox + HF UIN Protocol 82 - ioProx label + HF UIN Protocol 121 - EM4050 f/64 std. mode + HF UIN Protocol 96 - PAC/KeyPAC + HF UIN Protocol 120 - URMET/FDI + HF UIN <i>Protocol 117 - ASK/FSK testing + HF UIN</i> Protocol 128 - Custom 06/233 Protocol 135 - Custom 07/006 Protocol 145 - Custom 10/003 Protocol 149 - Custom 11/002 Protocol 152 - Custom 11/005 Protocol 155 - Custom 11/008 Protocol 160 - Custom 11/013 Protocol 161 - Custom 11/014 Protocol 162 - Custom 12/001 Protocol 164 - Custom 12/003 Protocol 166 - Custom 12/005 Protocol 168 - Custom 12/007 Protocol 169 - Custom 12/008 Protocol 188 - Custom 14/002 Protocol 190 - Custom 14/004 Protocol 191 - Custom 14/005 Protocol 192 - Custom 15/001 Protocol 193 - Custom 17/001 Protocol 194 - Custom 17/002

Reader	Available protocols
B-080 - Magnetic cards	Protocol 39 - Track 2 Protocol 38 - Track 1 Protocol 40 - Track 3 Protocol 41 - Tracks 1-2 Protocol 42 - Tracks 2-3 Protocol 43 - Tracks 1-2-3
B-081 - Barcode - swipe	Protocol 2 - Barcode
B-082 - Barcode - external	Protocol 2 - MIFARE
B-083 - SmartCard reader	Protocol 34 - Smartcard UIN Protocol 53 - Smartcard PKCS #15 sn. Protocol 54 - SC PKCS #15 sn. with PIN1 verify Protocol 55 - SC PKCS #15 sn. with PIN2 verify Protocol 78 - PIV card Protocol 79 - Gemalto .NET and Gemalto PKI Applet Protocol 123 - CAC card Protocol 131 - Custom 07/002 Protocol 144 - Custom 10/002 Protocol 167 - Custom 12/006 Protocol 195 - Custom 18/001
B-084 - Magnetic cards v2	Protocol 58 - Track 2 Protocol 57 - Track 1 Protocol 59 - Track 3 Protocol 60 - Tracks 1-2 Protocol 61 - Tracks 2-3 Protocol 62 - Tracks 1-3 Protocol 63 - Tracks 1-2-3 <i>Protocol 116 - Tracks 1-2-3 testing</i> Protocol 176 - Custom 13/007
B-086 - Reader 3 Magstripe	Protocol 58 - Track 2 Protocol 57 - Track 1 Protocol 59 - Track 3 Protocol 60 - Tracks 1-2 Protocol 61 - Tracks 2-3 Protocol 62 - Tracks 1-3 Protocol 63 - Tracks 1-2-3 <i>Protocol 116 - Tracks 1-2-3 testing</i> Protocol 176 - Custom 13/007

Reader	Available protocols
B-087 - MultiReader HF	Protocol 105 - Card UIN Protocol 118 - ISO14443A UIN only Protocol 106 - Card UIN rev. endian Protocol 100 - Card UIN continuous Protocol 128 - Custom 06/233 Protocol 135 - Custom 07/006 Protocol 145 - Custom 10/003 Protocol 149 - Custom 11/002 Protocol 152 - Custom 11/005 Protocol 155 - Custom 11/008 Protocol 160 - Custom 11/013 Protocol 161 - Custom 11/014 Protocol 162 - Custom 12/001 Protocol 164 - Custom 12/003 Protocol 166 - Custom 12/005 Protocol 169 - Custom 12/008 Protocol 188 - Custom 14/002 Protocol 190 - Custom 14/004 Protocol 191 - Custom 14/005 Protocol 192 - Custom 15/001
B-088 - Reader 3 MF and Legic	Protocol 1222 - LF UIN + Legic UIN Protocol 1220 - LF UIN + Legic UIN rev. endian Protocol 49 - Legic UIN only Protocol 1221 - LF UIN only Protocol 113 - Legic UIN rev. endian Protocol 74 - Legic Advant UIN Protocol 107 - Legic Prime UIN Protocol 80 - FIPS201 ID from PIV-II Protocol 90 - EM4000 compat.+ Legic UIN Protocol 1349 - Legic UIN+HID Prox Protocol 1413 - Legic UIN rev. endian+HID Prox Protocol 1374 - Legic Advant UIN+HID Prox Protocol 1407 - Legic Prime UIN+HID Prox Protocol 1380 - FIPS201 ID from PIV-II+HID Prox Protocol 125 - EM4000 compat.+ HID Prox + Legic UIN Protocol 91 - Proxlite/Casi-Rusco + Legic UIN Protocol 92 - Paradox/PosiProx + Legic UIN Protocol 89 - Nedap + Legic UIN Protocol 87 - Awid + Legic UIN Protocol 86 - Pyramid + Legic UIN Protocol 85 - Deister + Legic UIN Protocol 84 - Datasec + Legic UIN Protocol 83 - G-Prox + Legic UIN

Reader	Available protocols
	Protocol 82 - ioProx label + Legic UIN Protocol 121 - EM4050 f/64 std. mode + Legic UIN Protocol 96 - PAC/KeyPAC + Legic UIN Protocol 120 - URMET/FDI + Legic UIN Protocol 35 - HID Prox + Legic UIN Protocol 124 - HID Prox + Legic UIN rev. endian Protocol 1035 - HID Prox UDF + Legic UIN Protocol 93 - HID Prox only Protocol 108 - Legic short KGH seg. 1 Protocol 109 - Legic short KGH seg. 2 Protocol 110 - Legic short KGH seg. 3 Protocol 111 - Legic short KGH seg. 4 Protocol 64 - Legic KGH seg. 1 Protocol 65 - Legic KGH seg. 2 Protocol 66 - Legic KGH seg. 3 Protocol 67 - Legic KGH seg. 4 Protocol 29 - Legic KGH seg. 1 compat. Protocol 30 - Legic KGH seg. 2 compat. Protocol 31 - Legic KGH seg. 3 compat. Protocol 32 - Legic KGH seg. 4 compat. Protocol 75 - Interflex card ID Protocol 1408 - Legic short KGH seg. 1+HID Prox Protocol 1409 - Legic short KGH seg. 2+HID Prox Protocol 1410 - Legic short KGH seg. 3+HID Prox Protocol 1411 - Legic short KGH seg. 4+HID Prox Protocol 1364 - Legic KGH seg. 1+HID Prox Protocol 1365 - Legic KGH seg. 2+HID Prox Protocol 1366 - Legic KGH seg. 3+HID Prox Protocol 1367 - Legic KGH seg. 4+HID Prox Protocol 1329 - Legic KGH seg. 1 compat.+HID Prox Protocol 1330 - Legic KGH seg. 2 compat.+HID Prox Protocol 1331 - Legic KGH seg. 3 compat.+HID Prox Protocol 1332 - Legic KGH seg. 4 compat.+HID Prox Protocol 1375 - Interflex card ID+HID Prox <i>Protocol 117 - ASK/FSK testing + Legic UIN</i> Protocol 129 - Custom 06/266 Protocol 132 - Custom 07/003 Protocol 134 - Custom 07/005 Protocol 140 - Custom 08/004 Protocol 141 - Custom 08/005 Protocol 151 - Custom 11/004 Protocol 153 - Custom 11/006 Protocol 154 - Custom 11/007 Protocol 156 - Custom 11/009

Reader	Available protocols
	Protocol 159 - Custom 11/012 Protocol 163 - Custom 12/002 Protocol 165 - Custom 12/004 Protocol 173 - Custom 13/004 Protocol 175 - Custom 13/006 Protocol 178 - Custom 13/009
B-089 - Legic Advant v3	Protocol 49 - Legic UIN Protocol 113 - Legic UIN rev. endian Protocol 74 - Legic Advant UIN Protocol 107 - Legic Prime UIN Protocol 80 - FIPS201 ID from PIV-II Protocol 108 - Legic short KGH seg. 1 Protocol 109 - Legic short KGH seg. 2 Protocol 110 - Legic short KGH seg. 3 Protocol 111 - Legic short KGH seg. 4 Protocol 75 - Interflex card ID Protocol 64 - Legic KGH seg. 1 Protocol 65 - Legic KGH seg. 2 Protocol 66 - Legic KGH seg. 3 Protocol 67 - Legic KGH seg. 4 Protocol 29 - Legic KGH seg. 1 compat. Protocol 30 - Legic KGH seg. 2 compat. Protocol 31 - Legic KGH seg. 3 compat. Protocol 32 - Legic KGH seg. 4 compat. Protocol 129 - Custom 06/266 Protocol 132 - Custom 07/003 Protocol 134 - Custom 07/005 Protocol 140 - Custom 08/004 Protocol 141 - Custom 08/005 Protocol 151 - Custom 11/004 Protocol 153 - Custom 11/006 Protocol 154 - Custom 11/007 Protocol 156 - Custom 11/009 Protocol 159 - Custom 11/012 Protocol 163 - Custom 12/002 Protocol 165 - Custom 12/004 Protocol 173 - Custom 13/004 Protocol 175 - Custom 13/006 Protocol 178 - Custom 13/009
B-090 - iButton (Dallas)	Protocol 11 - iButton UIN
B-091 - SmartCard v2	Protocol 78 - FIPS201 ID from PIV-II <i>Protocol 95 - ATR testing</i>

Reader	Available protocols
B-092 - SmartCard v2 TermPro	Protocol 34 - Smartcard UIN Protocol 53 - Smartcard PKCS #15 sn. Protocol 54 - SC PKCS #15 sn. with PIN1 verify Protocol 55 - SC PKCS #15 sn. with PIN2 verify Protocol 78 - PIV card Protocol 79 - Gemalto .NET and Gemalto PKI Applet Protocol 123 - CAC card Protocol 131 - Custom 07/002 Protocol 144 - Custom 10/002 Protocol 167 - Custom 12/006 Protocol 195 - Custom 18/001 <i>Protocol 112 - Remote Smartcard testing mode</i>
B-093 - Reader 3 Smart Card	Protocol 78 - FIPS201 ID from PIV-II <i>Protocol 95 - ATR testing</i>
B-095 - Reader 3 iButton	Protocol 11 - iButton UIN
B-098 - Fingerprint v2	Protocol 24 - Fingerprint sec. normal Protocol 98 - Fingerprint sec. high Protocol 99 - Fingerprint sec. highest
B-099 - Fingerprint swipe	Protocol 24 - Fingerprint sec. normal Protocol 98 - Fingerprint sec. high Protocol 99 - Fingerprint sec. highest