

1. Available firmware, archives and documentation

Firmware

Mhx file
IL-AMF20-2.4.1-C.mhx
IL-AMF25-2.4.1-C.mhx
IL-MRS10-2.4.1-C.mhx
IL-MRS11-2.4.1-C.mhx
IL-MRS15-2.4.1-C.mhx
IL-MRS16-2.4.1-C.mhx

Archives

Archives
IL-AMF20-2.4.1-C.ail
IL-AMF25-2.4.1-C.ail
IL-MRS10-2.4.1-C.ail
IL-MRS11-2.4.1-C.ail
IL-MRS15-2.4.1-C.ail
IL-MRS16-2.4.1-C.ail

Documentation

PDF files	Description
IL-MRS-2.4.pdf	Manual for all IntelliLite MRS configurations
IL-AMF-2.4.pdf	Manual for all IntelliLite AMF configurations
LiteEdit-2.4.1-New features.pdf	New feature list of LiteEdit v.2.4.1

2. Main changes in IL-2.4.1-C

New features added:

- A support of multipack message (IMACS) of Modbus protocol was added. All values are inserted into one block which is read in one command and they correspond to Cfg table and Alarm list as well. The whole block of data is read at once, there is no possibility of reading a fraction of the block only. An example of the IMACS communication object structure is shown in Table 1 below for IL AMF25. The structure may differ for other IL versions. For a specific unit can be obtained from LiteEdit SW from v.2.4.1 using the menu command Controller/Generate cfg image...
- The addresses of the 1B values are not modified to even addresses – defined off-sets at Cfg Image are respected.
- It cannot be assured that the register numbers are maintained in the next versions as well.

IL-2.4.1-C – New features / ©ComAp – August 2005 / IL-2.4.1-C New features.pdf

Tab 1: Example of multipack message (IMACS) structure as exported by LiteEdit for IL AMF25

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Tab. 8: Multipack message definition (object 24502)

      Num = 89
      Len = 196 bytes
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Name          Dim   Type          Len Dec Ofs   Obj
-----
BInpIL                Binary#1      2  -   0   8235
BOutIL                Binary#2      2  -   2   8239
Led GCB gr            Unsigned      1   0   4   8316
Led MCB gr            Unsigned      1   0   5   8318
Led GEN gr            Unsigned      1   0   6   8320
Led GEN red           Unsigned      1   0   7   8321
Led MAINS gr          Unsigned      1   0   8   8322
Led MAINS red         Unsigned      1   0   9   8323
Engine state          Unsigned      2   0  10   8330
Breaker state         Unsigned      2   0  12   8455
BInpIOM                Binary#3      2  -  14   8602
BOutIOM                Binary#4      2  -  16   8604
TimerText              Unsigned      2   0  18   8954
TimerValue             s Unsigned      2   0  20   8955
Led MCB fdb           Unsigned      1   0  22   9647
BOutRA15                Binary#5      2  -  23   9849
ECU State              Binary#6      1  -  25  10034
Gen V L1-N             V Unsigned      2   0  26   8192
Gen V L2-N             V Unsigned      2   0  28   8193
Gen V L3-N             V Unsigned      2   0  30   8194
Mns V L1-N             V Unsigned      2   0  32   8195
Mns V L2-N             V Unsigned      2   0  34   8196
Mns V L3-N             V Unsigned      2   0  36   8197
Gen curr L1            A Unsigned      2   0  38   8198
Gen curr L2            A Unsigned      2   0  40   8199
Gen curr L3            A Unsigned      2   0  42   8200
Act power              kW Integer       2   0  44   8202
React pwr kVAR         Integer       2   0  46   8203
Pwr factor             Integer       1   2  48   8204
Engine Speed           RPM Unsigned      2   0  49   8209
Gen freq              Hz Unsigned      2   1  51   8210
Mains freq             Hz Unsigned      2   1  53   8211
Load char              Char          1  -  55   8395
Act pwr L1             kW Integer       2   0  56   8524
Act pwr L2             kW Integer       2   0  58   8525
Act pwr L3             kW Integer       2   0  60   8526
React pwr L1           Integer       2   0  62   8527
React pwr L2           Integer       2   0  64   8528
React pwr L3           Integer       2   0  66   8529
Appar pwr L1           kVA Integer       2   0  68   8530
Appar pwr L2           kVA Integer       2   0  70   8531
Appar pwr L3           kVA Integer       2   0  72   8532
Pwr factor L1          Integer       1   2  74   8533
Pwr factor L2          Integer       1   2  75   8534
Pwr factor L3          Integer       1   2  76   8535
Appar pwr              kVA Integer       2   0  77   8565
=====

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Name	Dim	Type	Len	Dec	Ofs	Obj
Load char 1		Char	1	-	79	8626
Load char 2		Char	1	-	80	8627
Load char 3		Char	1	-	81	8628
Gen V L1-L2	V	Unsigned	2	0	82	9628
Gen V L2-L3	V	Unsigned	2	0	84	9629
Gen V L3-L1	V	Unsigned	2	0	86	9630
Mns V L1-L2	V	Unsigned	2	0	88	9631
Mns V L2-L3	V	Unsigned	2	0	90	9632
Mns V L3-L1	V	Unsigned	2	0	92	9633
kWhours		Integer	4	0	94	8205
RunHours	h	Integer	4	0	98	8206
NumStarts		Unsigned	2	0	102	8207
Batt volt	V	Integer	2	1	104	8213
Oil press	Bar	Integer	2	1	106	8227
Water temp	°C	Integer	2	0	108	8228
Fuel level	%	Integer	2	0	110	8229
SW version		Unsigned	1	1	112	8393
IgMax		Unsigned	2	0	113	8450
Application		Unsigned	1	0	115	8480
kVAhours		Integer	4	0	116	8539
SW branch		Unsigned	1	0	120	8707
NomAn1 iL		Unsigned	2	0	121	8728
NomAn2 iL		Unsigned	2	0	123	8729
NomAn3 iL		Unsigned	2	0	125	8730
AnInIOM 2	U5	Integer	2	0	127	8759
AnInIOM 3	U6	Integer	2	0	129	8760
AnInIOM 4	U7	Integer	2	0	131	8761
NomAn1 IOM		Unsigned	2	0	133	8785
NomAn2 IOM		Unsigned	2	0	135	8786
NomAn3 IOM		Unsigned	2	0	137	8787
NomAn4 IOM		Unsigned	2	0	139	8788
AnInIOM 1	U4	Integer	2	0	141	8978
PasswordDecode		Unsigned	4	0	143	9090
NextServTime	h	Unsigned	2	0	147	9648
ControllerMode		Unsigned	1	0	149	9651
Water temp	°C	Integer	2	0	150	9855
Fuel rate	L/h	Unsigned	2	1	152	9860
Boost pressure	Bar	Unsigned	1	1	154	9877
ManifoldTemp	°C	Integer	2	0	155	9878
PercLoadAtCS	%	Unsigned	1	0	157	9925
DiagData		Unsigned	4	0	158	10050
Oil press	Bar	Integer	2	1	162	10354
Alarm list		See Tab.13	32	-	164	24545