J17 BRN
F3
J18 BLU
SK8 IEC-PCB
T6.3AL (115V)
T3.15AL (230V)
Mains Fuse Info

J19 BRN
SW2 SW-DPST/S5
J21
J20 BRN
BLU
J22 BLU

+PWR
R195 2K2 0.5W
R196 2K2 0.5W
R197 2K2 0.5W
R198 2K2 0.5W
-PWR

HS2 SM_HEATSINK_01
TR23 MJD122
C120 1000uF/63V
R163 47R/MFP1
C122 1000uF/63V
D49 RS1D
D47 RS1D
D46 RS1D
D48 RS1D
TR24 MJD127
C119 1000uF/63V
R164 47R/MFP1
C121 1000uF/63V
HS3 SM_HEATSINK_01
HS4 SM_HEATSINK_01
Un-regulated low Current

100nF/X7R/50V C37
100nF/63V/C1 C15
U11 MC78M15BDT
+15V
C113 10uF/25V/SC
AGND
C114 10uF/25V/SC
-15V
-15V 100nF/X7R/50V C38
C16 100nF/63V/C1
U12 MC79M15BDT
PRE_REG+
PRE_REG-
C39 100nF/X7R/50V
C17 470nF/63V/C22
C117 2.2uF/50V/SC
C40 100nF/X7R/50V
C18 470nF/63V/C22
C118 2.2uF/50V/SC
R109 22K
R168 43K
R169 43K
R110 22K
+UNREG
-UNREG
+/-15V Analouge supply

AC
+PWR
C124 4700uF/63V
AC1
F2 2AT
AC3
C125 4700uF/63V
D54 6A2
D56 6A2
D55 6A2
D57 6A2
J4 PIN
GROUND LINK
C123 4700uF/63V
C126 4700uF/63V
F1 2AT
AC4
-PWR
AC2
J6 Red
C88 1uF/50V/C18
J5 Grey
C87 1uF/50V/C18
J7 GND
J8 GND
J9 GND
J10 SPK
J11 SPK
Un-regulated High Current

Supply taken from front panel

U13 L78M12 (LM7812 SM)
VCC
+12V
Vin
+18V
C41 100nF/X7R/50V
C42 100nF/X7R/50V
C115 10uF/25V/SC
GND
+12V Protection supply (VCC)
Fit Pad and Vias on 5 & 12V Regs

J16 PIN
FP_DOUBLE

XX
U14 LM1117DTX-5.0
AVDD
+5V
C76 100nF/X7R/50V
C77 100nF/X7R/50V
C116 10uF/25V/SC
WM8806 Analouge +5V Supply

FID1 FID_MARK
FID2 FID_MARK
FID3 FID_MARK
FID4 FID_MARK

V3 LM385D-1.2
R122 330R
R126 220R
TR29 BC856B
TR33 2N5401
C106 22uF/50V/SC
R172 7K5
R173 7K5
C13 470nF/63V/C22
C109 330uF/63V/C32
R14 1K
TR34 2N5401
TR37 2N5550
C139 100pF/C0G/200V
R162 47R/MFP1
+UNREG
C14 470nF/63V/C22
+PWR
TR43 STD03N
R76 100R
CLP1 HEAT_CLIP
D50 RS1D
J12 DC IN L
C51 220nF/160V/R79
R98 2K2
LPWRIN
C89 1uF/50V/C18
TR25 2SA1163
R53 47R
R54 47R
TR26 2SA1163
R155 Rx
C131 Cx
R6 47K **MF**
C127 330pF/C15
R5 47K **MF**
R170 1K2
JP7 DC Test Left
C129 47uF/25V/FG
C57 4.7uF/50V/C71
D27 BAS16
C134 47nF/X7R/100V
TR20 BC846B
R127 220R
C58 4.7uF/50V/C71
C137 1000uF/6.3V/GC
PR3 220R/PR1
J23 TR43_E
R180 0R22
L1 1uH/ECH2
PWROUL
R186 4R7/MF3S
C75 100nF/63V/C1
R184 10R/MF3S
RLA10 G5PA-2
SPKL
J14 SPKL
D30 BAS16
R188 1K 1W
TR30 BC856B
R128 220R
C5 22uF/25V/FG
D28 BAS16
D29 BAS16
R181 0R22
J24 TR45_E
D26 BAS16
C133 47nF/X7R/100V
TR38 2N5550
R178 2K
R160 7K5
R199 7K5
R77 100R
TR45 STD03P
D52 RS1D
TR47 2SC2713
TR48 2SC2713
C143 150pF/C0G/200V
TR39 2N5550
R78 100R
R79 100R
R190 39R
C141 330pF/C0G/100V
V5 LM385D-1.2
C19 470nF/63V/C22
C111 330uF/63V/C32
R131 220R
R166 47R/MFP1
-UNREG
C20 470nF/63V/C22
C110 330uF/63V/C32
R165 47R/MFP1
+UNREG
C22 470nF/63V/C22
-PWR
+PWR
MUTE/RLA

V4 LM385D-1.2
R123 330R
R129 220R
TR31 BC856B
TR35 2N5401
C107 22uF/50V/SC
R174 7K5
R175 7K5
C15 1K
TR36 2N5401
TR40 2N5550
C140 100pF/C0G/200V
TR44 STD03N
R80 100R
CLP2 HEAT_CLIP
D51 RS1D
J13 DC IN L
C52 220nF/160V/R79
R99 2K2
RPWRIN
C90 1uF/50V/C18
TR27 2SA1163
R55 47R
R56 47R
TR28 2SA1163
R156 Rx
C132 Cx
R7 47K **MF**
C128 330pF/C15
R8 47K **MF**
R171 1K2
JP8 DC Test Right
C130 47uF/25V/FG
C60 4.7uF/50V/C71
D31 BAS16
C135 47nF/X7R/100V
TR21 BC846B
R130 220R
C59 4.7uF/50V/C71
C138 1000uF/6.3V/GC
PR4 220R/PR1
J25 TR44_E
R182 0R22
L2 1uH/ECH2
PWROUR
R187 4R7/MF3S
C78 100nF/63V/C1
R185 10R/MF3S
RLA11 G5PA-2
SPKR
J15 SPKR
D35 BAS16
R189 1K 1W
TR32 BC856B
R132 220R
C6 22uF/25V/FG
D34 BAS16
D33 BAS16
R183 0R22
J1 TR46_E
D32 BAS16
C136 47nF/X7R/100V
TR42 2N5550
R179 2K
R161 7K5
R200 7K5
R83 100R
TR46 STD03P
D53 RS1D
TR49 2SC2713
TR50 2SC2713
C144 150pF/C0G/200V
TR41 2N5550
R81 100R
R82 100R
R191 39R
C142 330pF/C0G/100V
V6 LM385D-1.2
-UNREG
R167 47R/MFP1
R133 220R
C24 470nF/63V/C22
C23 470nF/63V/C22
C112 330uF/63V/C32

Issue 2

Title	Mireli 2012 Main PCB Pwr & PSU	
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