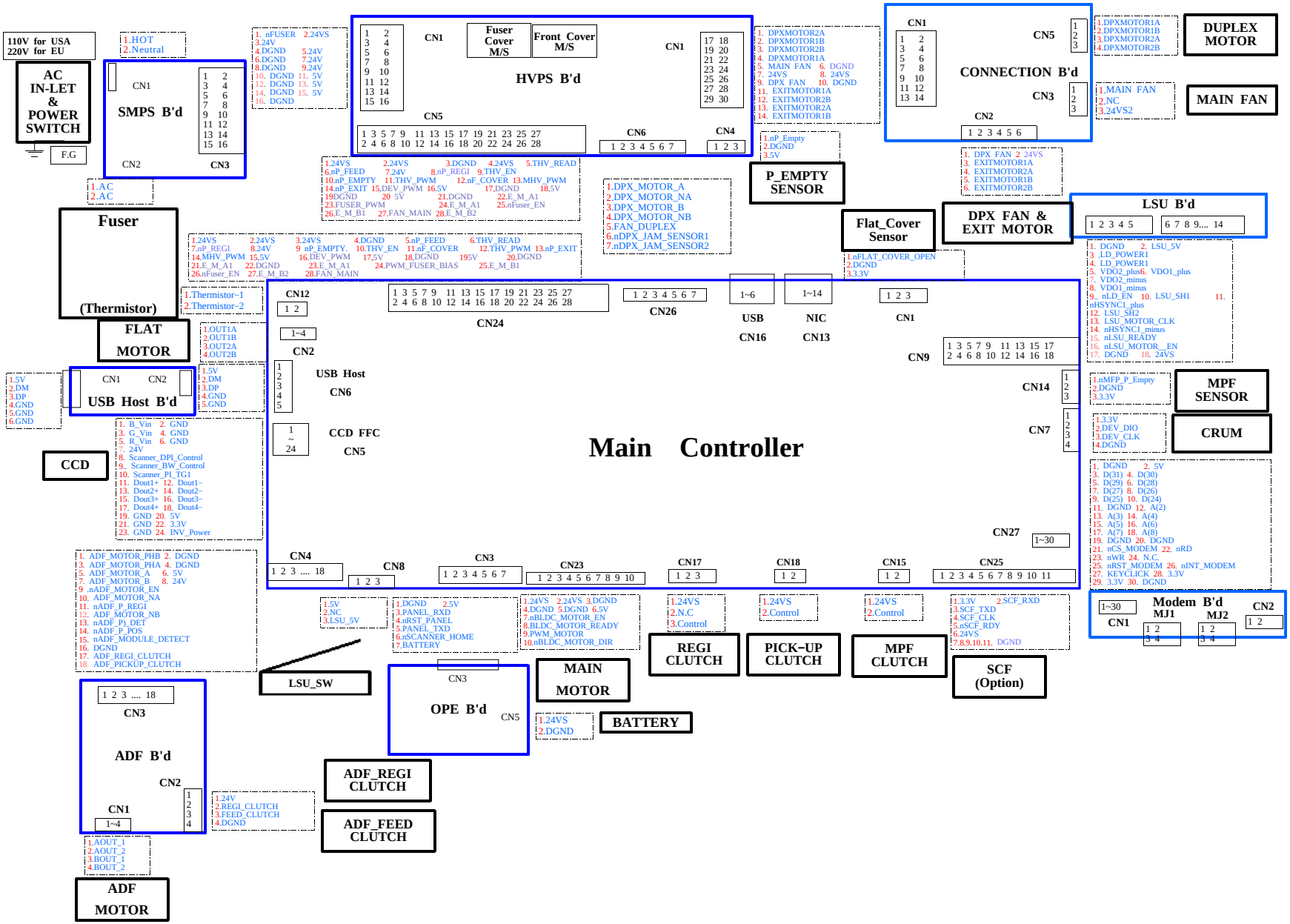
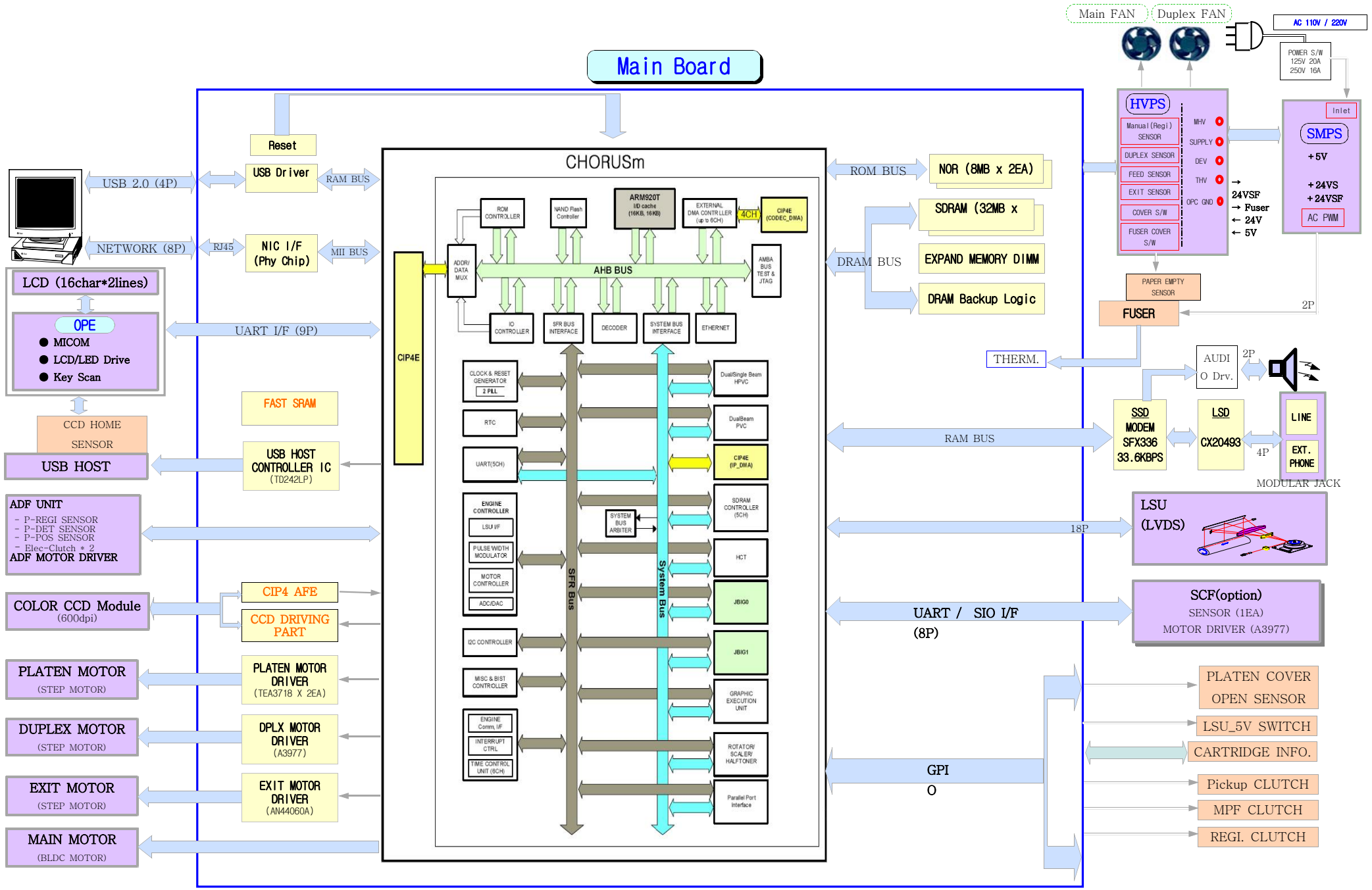
Helium Connection Diagram




Main Board
CHORUSm
Reset
USB 2.0 (4P)
USB Driver
RAM BUS
NETWORK (8P)
RJ45
NIC I/F
(Phy Chip)
MII BUS
LCD (16char*2lines)
OPE
MICOM
LCD/LED Drive
Key Scan
UART I/F (9P)
CCD HOME
SENSOR
USB HOST
FAST SRAM
USB HOST
CONTROLLER IC
(TD242LP)
ADF UNIT
- P-REGI SENSOR
- P-DET SENSOR
- P-POS SENSOR
- Elec-Clutch * 2
ADF MOTOR DRIVER
COLOR CCD Module
(600dpi)
CIP4 AFE
CCD DRIVING
PART
PLATEN MOTOR
(STEP MOTOR)
PLATEN MOTOR
DRIVER
(TEA3718 X 2EA)
DUPLEX MOTOR
(STEP MOTOR)
DPLX MOTOR
DRIVER
(A3977)
EXIT MOTOR
(STEP MOTOR)
EXIT MOTOR
DRIVER
(AN44060A)
MAIN MOTOR
(BLDC MOTOR)
CIP4E
ROM CONTROLLER
NAND Flash Controller
ARM920T
I/D cache
(16KB, 16KB)
EXTERNAL DMA CONTRLLER
(up to 6CH)
4CH
CIP4E
(CODEC_DMA)
ADDR/ DATA MUX
AHB BUS
AMBA BUS TEST & JTAG
IO CONTROLLER
SFR BUS INTERFACE
DECODER
SYSTEM BUS INTERFACE
ETHERNET
CLOCK & RESET GENERATOR
2 PLL
RTC
UART(5CH)
ENGINE CONTROLLER
LSU I/F
PULSE WIDTH MODULATOR
MOTOR CONTROLLER
ADC/DAC
I2C CONTROLLER
MISC & BIST CONTROLLER
ENGINE Comm. I/F
INTERRUPT CTRL
TIME CONTROL UNIT (8CH)
SYSTEM BUS ARBITER
SFR Bus
System Bus
DualSingle Beam HPVC
DualBeam PVC
CIP4E (IP_DMA)
SDRAM CONTROLLER (5CH)
HCT
JBIG0
JBIG1
GRAPHIC EXECUTION UNIT
ROTATOR/ SCALER/ HALFTONER
Parallel Port Interface
ROM BUS
NOR (8MB x 2EA)
SDRAM (32MB x
DRAM BUS
EXPAND MEMORY DIMM
DRAM Backup Logic
THERM.
RAM BUS
18P
UART / SIO I/F
(8P)
GPI
O
Main FAN
Duplex FAN
AC 110V / 220V
POWER S/W
125V 20A
250V 16A
HVPS
Manual (Regi) SENSOR
DUPLEX SENSOR
FEED SENSOR
EXIT SENSOR
COVER S/W
FUSER COVER S/W
MHV
SUPPLY
DEV
THV
OPC GND
24VSF
Fuser
24V
5V
Inlet
SMPS
+5V
+24VS
+24VSF
AC PWM
PAPER EMPTY SENSOR
FUSER
2P
AUDI
O Drv.
2P
SSD
MODEM
SFX336
33.6KBPS
LSD
CX20493
4P
LINE
EXT. PHONE
MODULAR JACK
LSU
(LVDS)
SCF(option)
SENSOR (1EA)
MOTOR DRIVER (A3977)
PLATEN COVER
OPEN SENSOR
LSU_5V SWITCH
CARTRIDGE INFO.
Pickup CLUTCH
MPF CLUTCH
REGI. CLUTCH