REVISIONS			
LTR	DESCRIPTION	DATE	APPVL
A	PRODUCTION RELEASE	09/19/02	

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APPROVALS			
ORIGINATOR:	DATE	ENGINEER DIRECTOR:	DATE
CHECKED:	DATE	CONFIGURATION MGR:	DATE

Applied Data Systems, Inc.
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TITLE

BITSY CONNECTOR BOARD
SCHEMATIC

SIZE	DRAWING NUMBER	REV
B	640111-8000	A

SCALE 1/1

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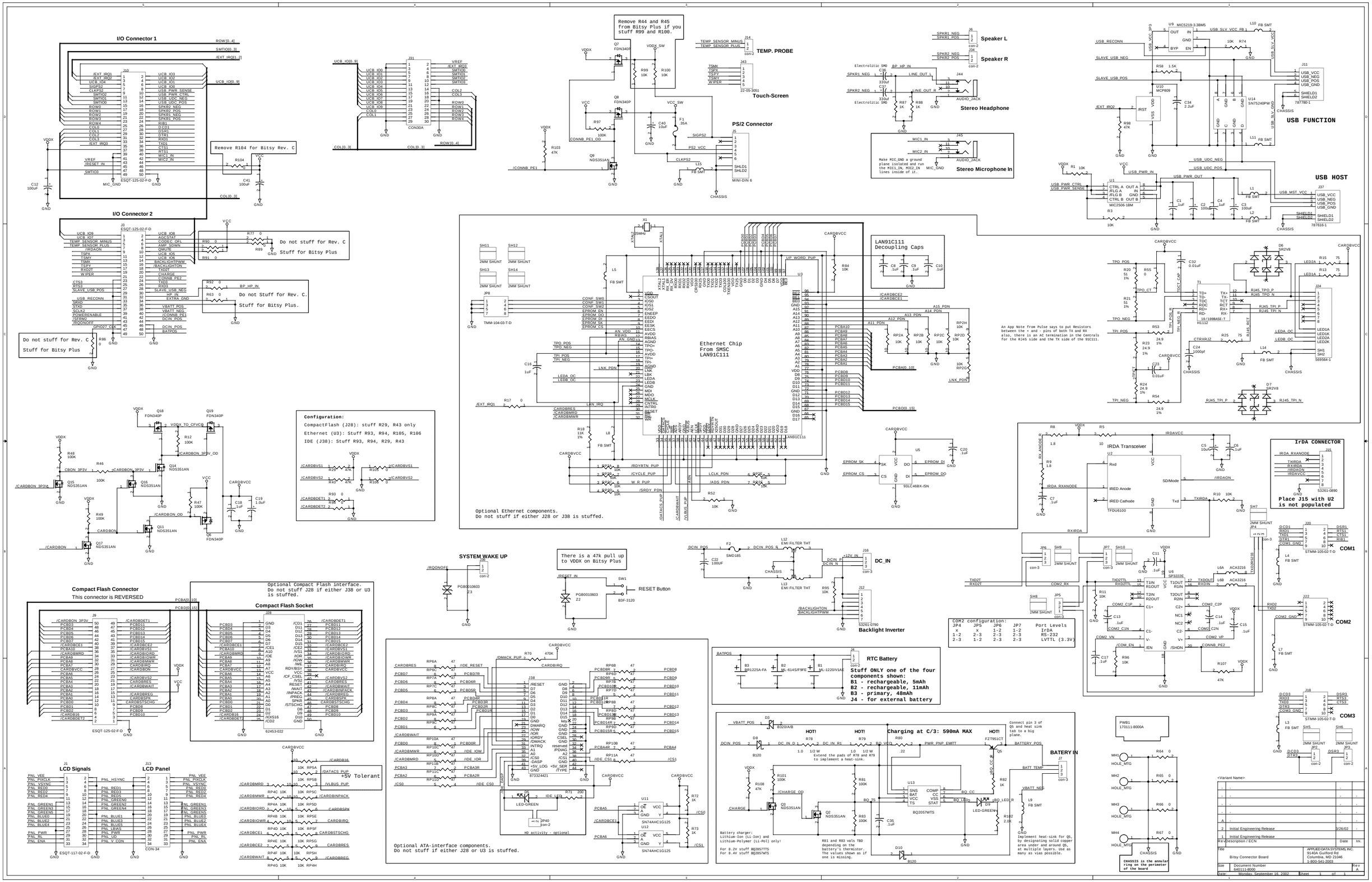
COVER SHEET


I/O Connector 1
I/O Connector 2
Remove R104 for Bitsy Rev. C
Do not stuff for Rev. C
Stuff for Bitsy Plus
Do not Stuff for Rev. C.
Stuff for Bitsy Plus.
Remove R44 and R45 from Bitsy Plus if you stuff R99 and R100.
TEMP. PROBE
Touch-Screen
PS/2 Connector
Speaker L
Speaker R
Stereo Headphone
Make MIC_GND a ground plane isolated and run the MIC1_IN, MIC2_IN lines inside of it.
Stereo Microphone In
USB FUNCTION
USB HOST
LAN91C111 Decoupling Caps
Ethernet Chip From SMSC LAN91C111
An App Note from Pulse says to put Resistors between the + and - pins of both TX and RX also, there is an AC termination in the Centrals for the RJ45 side and the TX side of the 91C111.
Configuration:
CompactFlash (J28): stuff R29, R43 only
Ethernet (U3): Stuff R93, R94, R105, R106
IDE (J38): Stuff R93, R94, R29, R43
Optional Ethernet components.
Do not stuff if either J28 or J38 is stuffed.
IrDA Transceiver
IrDA CONNECTOR
Place J15 with U2 is not populated
SYSTEM WAKE UP
There is a 47k pull up to VDDX on Bitsy Plus
RESET Button
DC_IN
Backlight Inverter
COM1
COM2
COM3
Compact Flash Connector
This connector is REVERSED
Optional Compact Flash interface. Do not stuff J28 if either J38 or U3 is stuffed.
Compact Flash Socket
LCD Signals
LCD Panel
+5V Tolerant
Optional ATA-interface components.
Do not stuff if either J28 or U3 is stuffed.
RTC Battery
Stuff ONLY one of the four components shown:
B1 - rechargeable, 5mAh
B2 - rechargeable, 11mAh
B3 - primary, 48mAh
J4 - for external battery
COM2 configuration:
JP4 JP5 JP6 JP7 Port Levels
x x 1-2 1-2 IrDA
1-2 2-3 2-3 2-3 RS-232
1-2 1-2 2-3 2-3 LVTTL (3.3V)
Charging at C/3: 590mA MAX
BATERY IN
Battery charger:
Lithium-Ion (Li-Ion) and
Lithium-Polymer (Li-Poly) only!
For 8.2V stuff BQ2057TTS
For 8.4V stuff BQ2057WTS
R81 and R83 vals TBD depending on the battery's thermistor. The values shown as if one is missing.
Connect pin 3 of Q5 and heat sink tab to a big plane.
Extend the pads of R78 and R79 to implement a heat-sink.
Implement heat-sink for Q5, by designating solid copper area under and around Q5, at multiple layers. Use as many as vias possible.
CHASSIS is the annular ring on the perimeter of the board
Bitsy Connector Board
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