



Technical Service Bulletin

To: NeXGen Service and Help Desk Personnel

From: Allied Electronics Technical Support

Date: March 12, 2010

Re: Wayne CAT IF Board RS485 to RS232 Conversion

** For the remainder of this document, the NeXGen controller will be referred to as **NXG**.*

In NXG environments where a Wayne PIB and Wayne CAT IF board are present, NXG will need to communicate to the Wayne CATs via RS232 as opposed to the RS485 protocol typically encountered in NXG Wayne Direct, ANDI Wayne Direct, and ANDI Wayne PIB environments.

In order to properly and successfully make NXG communicate to the Wayne CAT IF board via RS232, the following steps are absolutely **REQUIRED**:

- 1) Power down the Wayne EC (Electronic Central)
- 2) Remove the CAT IF board from the Wayne EC
- 3) Verify that the jumper settings are as follows (make any necessary changes):

Jumper	Position
JP1, JP8, JP9	Not Installed
JP2 - JP4, JP6, JP7, JP11 – JP28, JP30, JP31	1 & 2
JP5	2 & 3
JP10, JP29	Installed (2 pins only)

- 4) Place the CAT IF board back into the Wayne EC and power it back up

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- 5) Connect the following male DB25 RJ45 connector to the female Wayne CAT IF connector on the EC:

NeXGen (CHx) RJ45 adapter to Wayne CAT IF (RS-232)
(N9432-ADP)

NeXGen RJ45 Pins		CAT 5 Cable (T568B Spec.)		RJ45 Adapter Pins	CAT IF/EC DB-25 Male Pins
TXD 5	-----	Wht/Blu	-----	5 (Gm)	2 RXD
RXD 3	-----	Wht/Gm	-----	3 (Blk)	3 TXD
RTS 4	-----	Blue	-----	4 (Red)	4 CTS
CTS 6	-----	Green	-----	6 (Yel)	5 RTS
GND 8	-----	Brown	-----	8 (Wht)	7 GND
DTR 7	-----	Wht/Brn	-----	7 (Brn)	20 DSR

- 6) Run a straight-through CAT 5 cable from the male DB25 RJ45 connector to **Port 3** on NXG
7) Port 3 on NXG will serve as the **DEFAULT** CAT connection in NXG Wayne PIB systems since it is an RS232 port

Contact Allied Electronics Technical Support with any questions or concerns:

800-223-3619

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