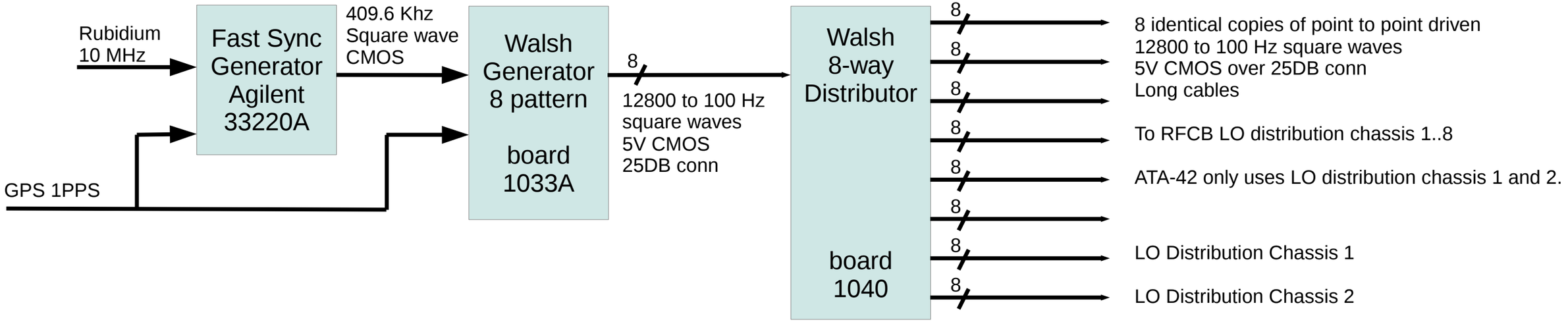
ATA's Walsh Generation and Distribution
(total of 8 walsh patterns in whole system)



RFCB backplane 1 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W7	W5	W3	W1	W7	W5	W3	W1	W7	W5	W3	W1
Ypoln	W8	W6	W4	W2	W8	W6	W4	W2	W8	W6	W4	W2

From 8-way Distributor

LO Distribution Chassis 1

Walsh / Power Driver Distributor board 1032 — Copy 1, Copy 2

Outputs are 5V CMOS

RFCB backplane 2 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W7	W5	W3	W1	W7	W5	W3	W1	W7	W5	W3	W1
Ypoln	W8	W6	W4	W2	W8	W6	W4	W2	W8	W6	W4	W2

RFCB backplane 3 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W7	W5	W3	W1	W7	W5	W3	W1	W7	W5	W3	W1
Ypoln	W8	W6	W4	W2	W8	W6	W4	W2	W8	W6	W4	W2

From 8-way Distributor

LO Distribution Chassis 2

Walsh / Power Driver Distributor board 1032 — Copy 1, Copy 2

Outputs are 5V CMOS

RFCB backplane 4 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W7	W5	W3	W1	W7	W5	W3	W1	W7	W5	W3	W1
Ypoln	W8	W6	W4	W2	W8	W6	W4	W2	W8	W6	W4	W2

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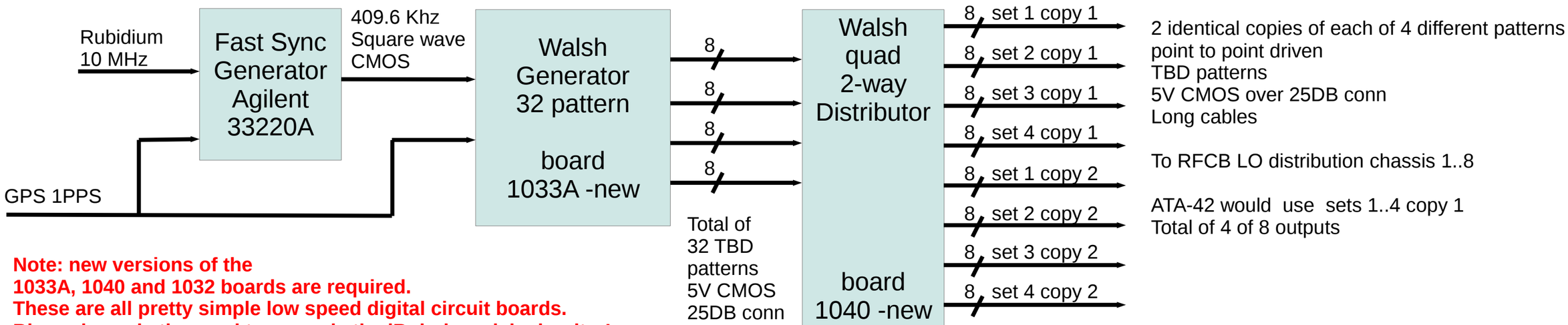
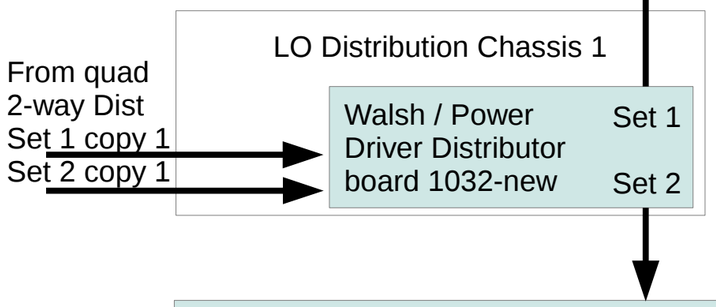
Possible 32 pattern upgrade to ATA's Walsh Generation and Distribution
iBob gateware upgrade of some sort required!



Note: new versions of the
1033A, 1040 and 1032 boards are required.
These are all pretty simple low speed digital circuit boards.
Bigger issue is the need to upgrade the iBob de-walsh circuitry!
Making new RFCB backplanes to be other than 3 sets of 8 patterns
Is doable but is a much more disruptive upgrade

RFCB backplane 1 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W7	W5	W3	W1	W7	W5	W3	W1	W7	W5	W3	W1
Ypoln	W8	W6	W4	W2	W8	W6	W4	W2	W8	W6	W4	W2

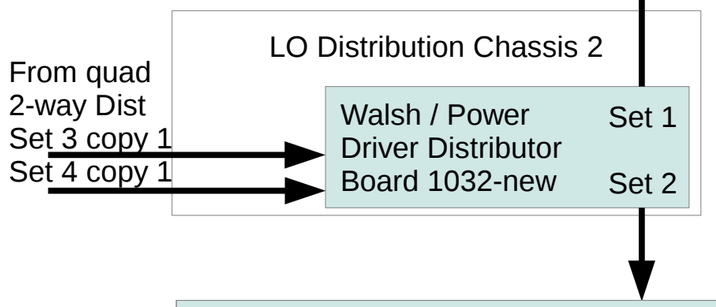


RFCB backplane 2 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W15	W13	W11	W9	W15	W13	W11	W9	W15	W13	W11	W9
Ypoln	W16	W14	W12	W10	W16	W14	W12	W10	W16	W14	W12	W10

RFCB backplane 3 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W23	W21	W19	W17	W23	W21	W19	W17	W23	W21	W19	W17
Ypoln	W24	W22	W20	W18	W24	W22	W20	W18	W24	W22	W20	W18



RFCB backplane 4 board 1029

Slot	12	11	10	9	8	7	6	5	4	3	2	1
Xpoln	W31	W29	W27	W25	W31	W29	W27	W25	W31	W29	W27	W25
Ypoln	W32	W30	W28	W26	W32	W30	W28	W26	W32	W30	W28	W26

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