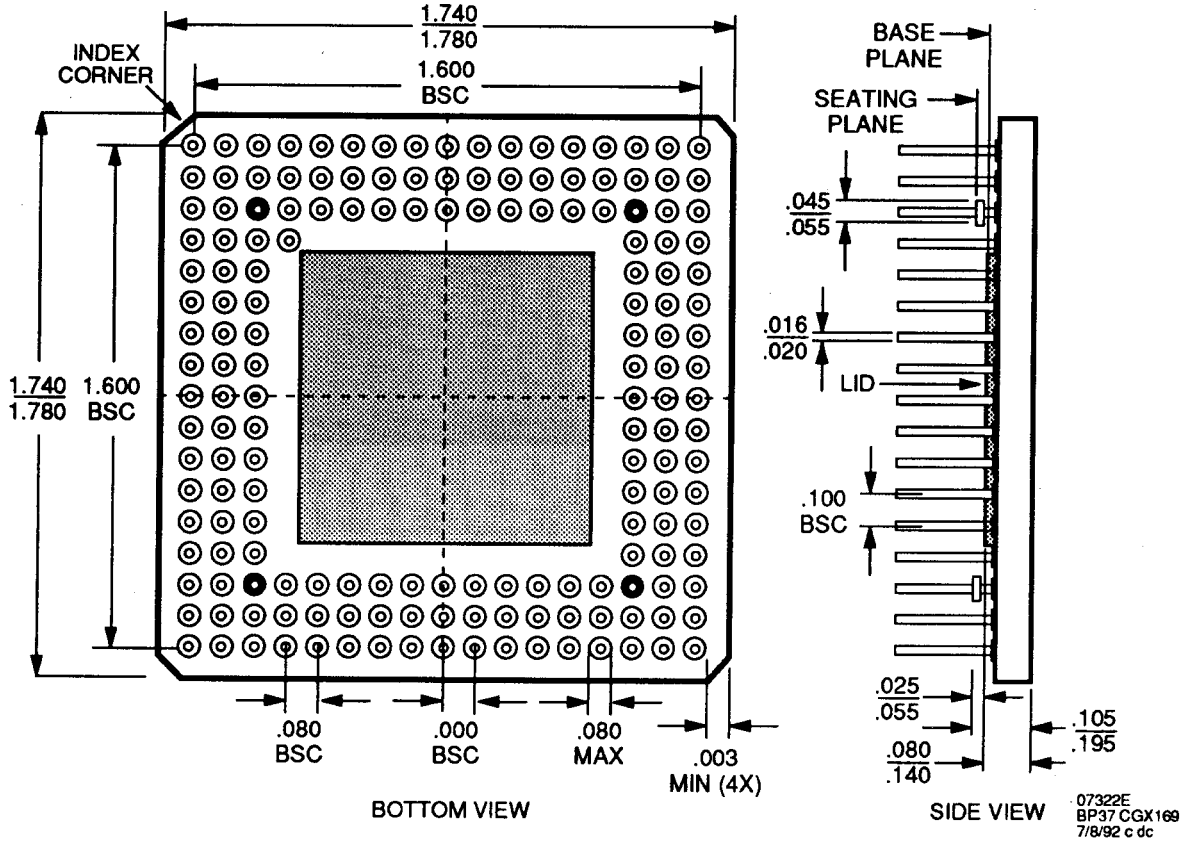
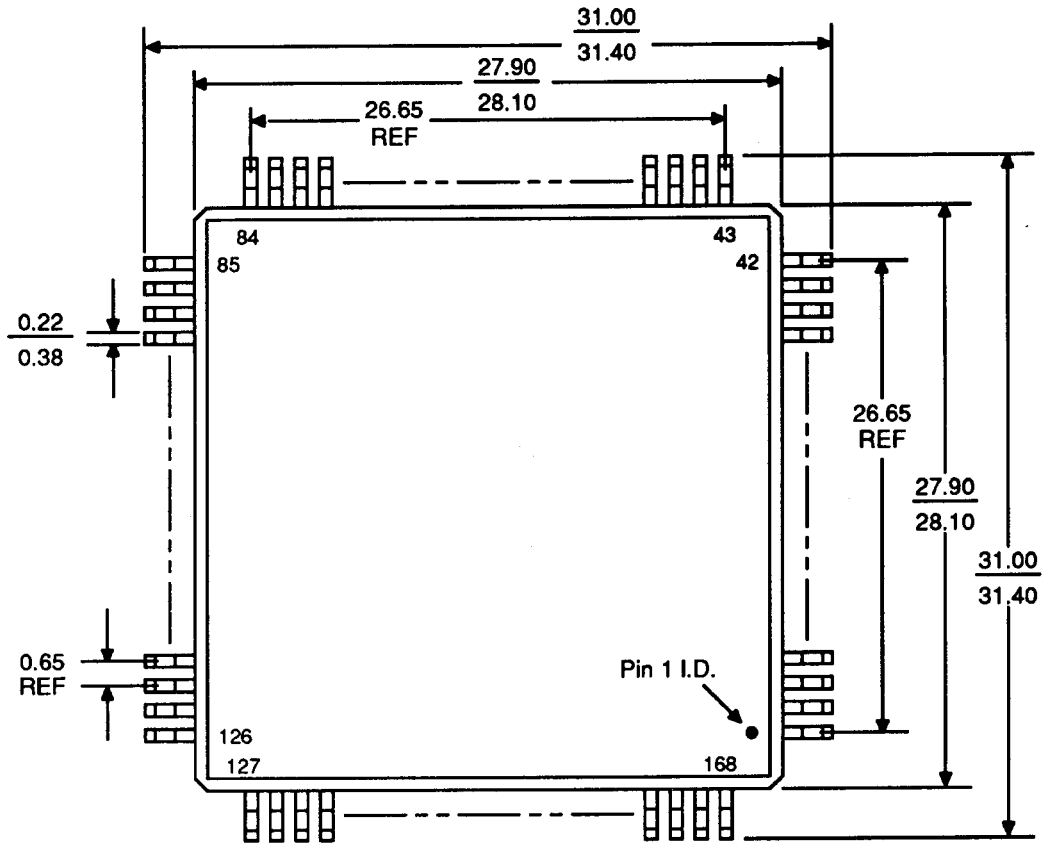
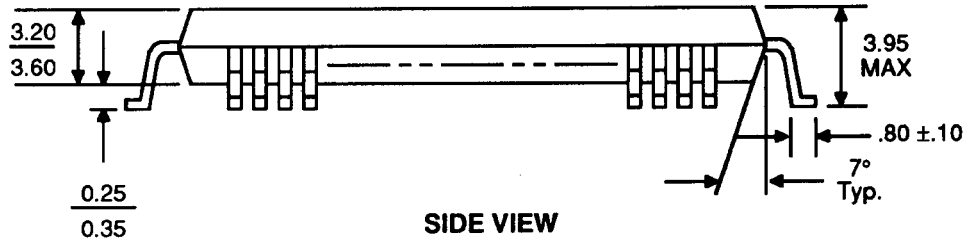
Am79C830A FORMAC Plus
CGX169
169-Lead Pin Grid Array Without Heat Sink (measured in inches)



Am79C830A FORMAC Plus
PQR168
168-Pin Plastic Quad FlatPack (Trimmed and Formed)
(measured in inches)

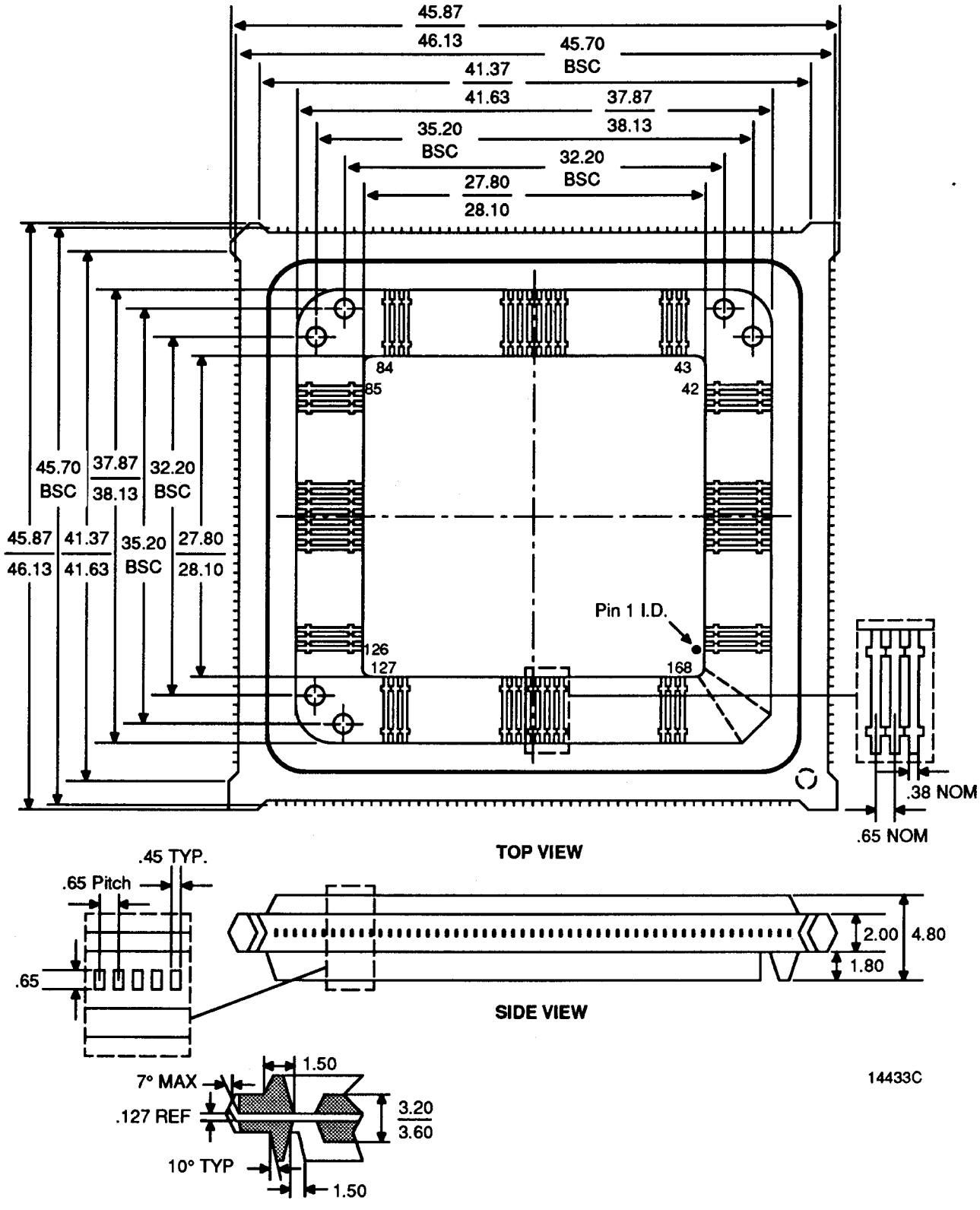


TOP VIEW

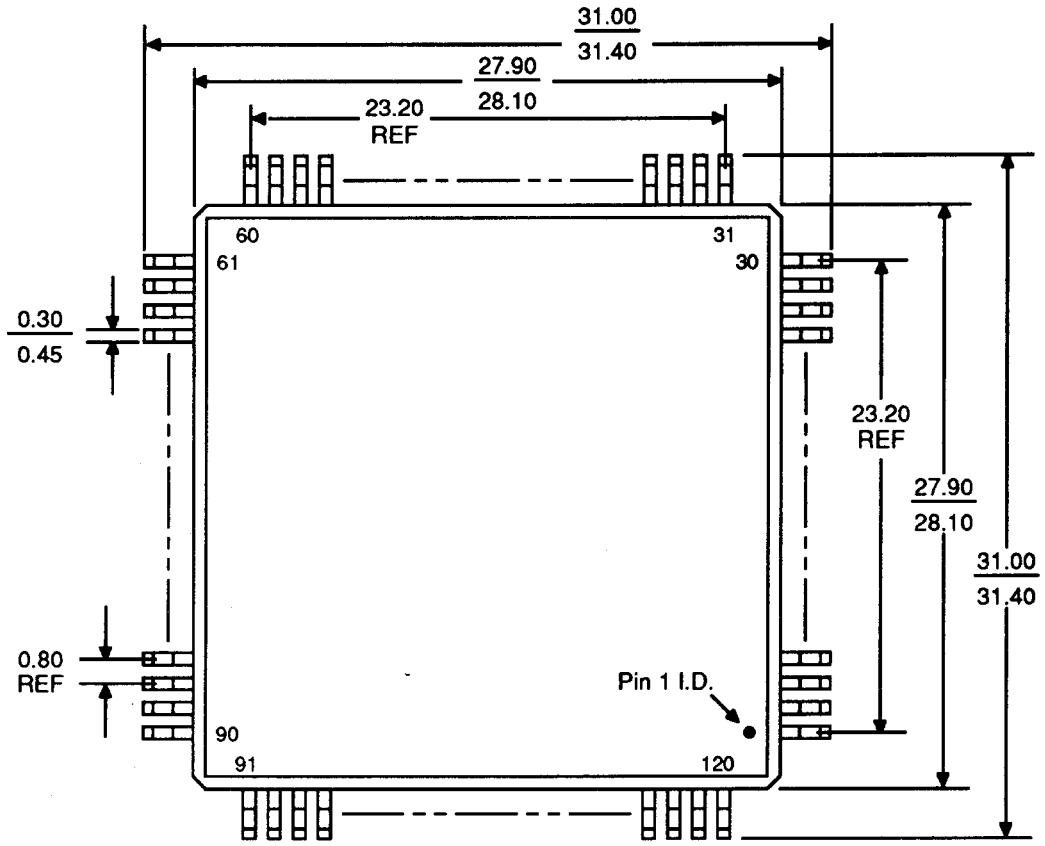


SIDE VIEW

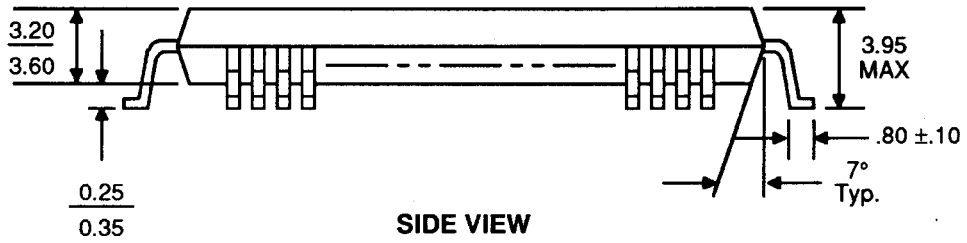
Am79C830A FORMAC Plus
PQR168
168-Pin Plastic Quad FlatPack (TapePak)
(measured in millimeters)



Am79C864A Physical Layer Controller
PQR120
120-Pin Plastic Quad FlatPack (Trimmed and Formed)
(measured in inches)

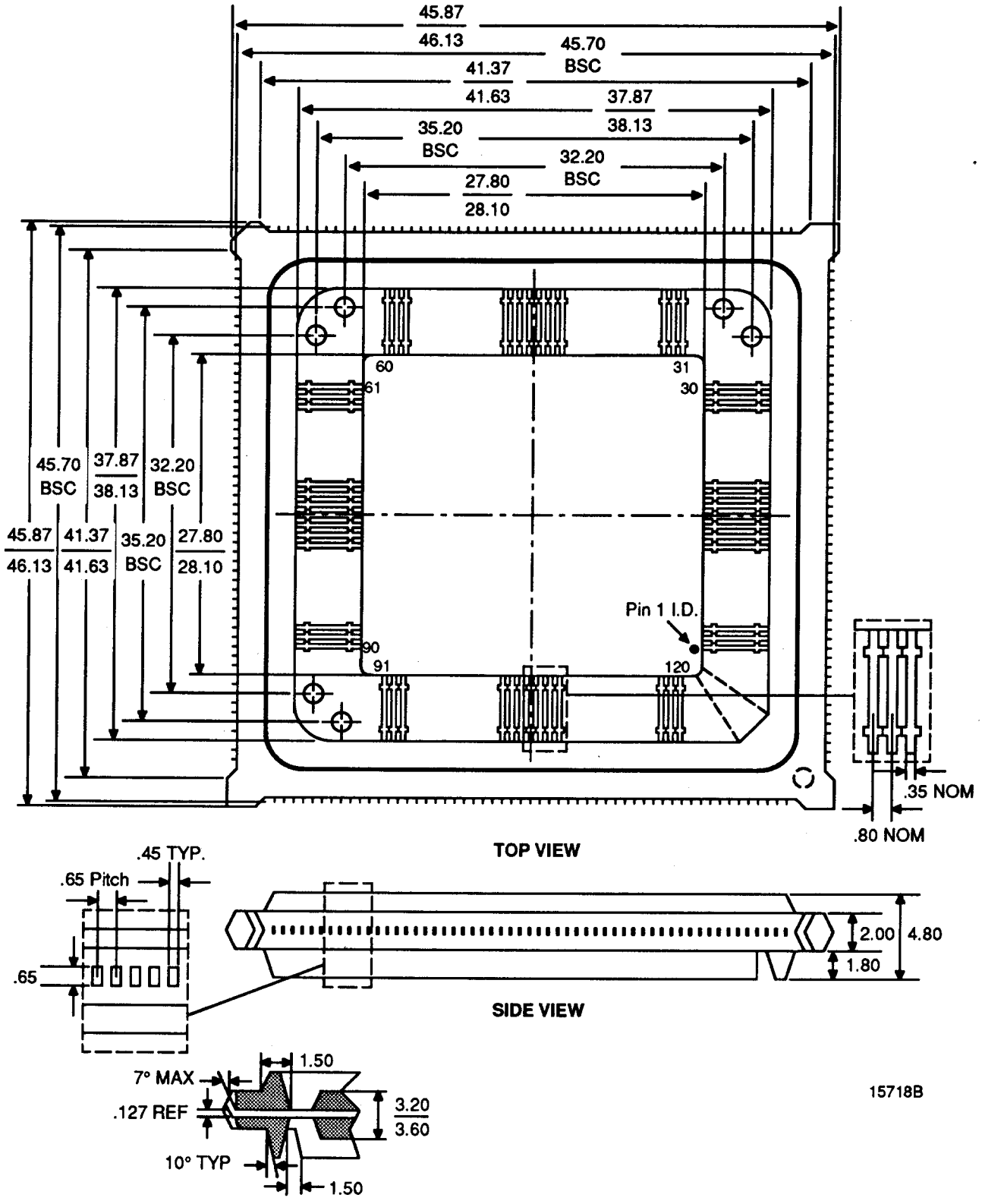


TOP VIEW

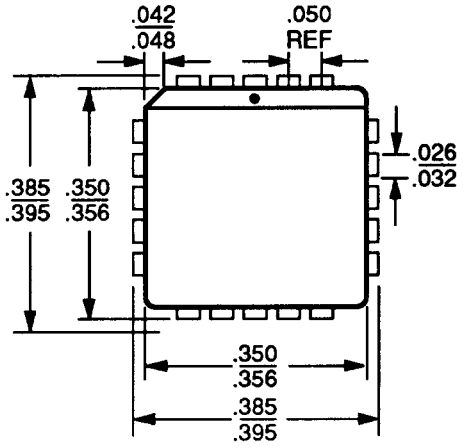


SIDE VIEW

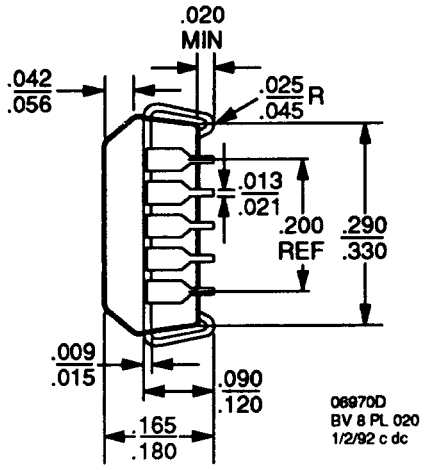
Am79C864A Physical Layer Controller
PQR120
120-Pin Plastic Quad FlatPack (TapePak)
(measured in millimeters)



Am79865/Am79866A Physical Data Transmitter/Data Receiver
PL 020
20-Pin Plastic Leaded Chip Carrier (measured in inches)



TOP VIEW



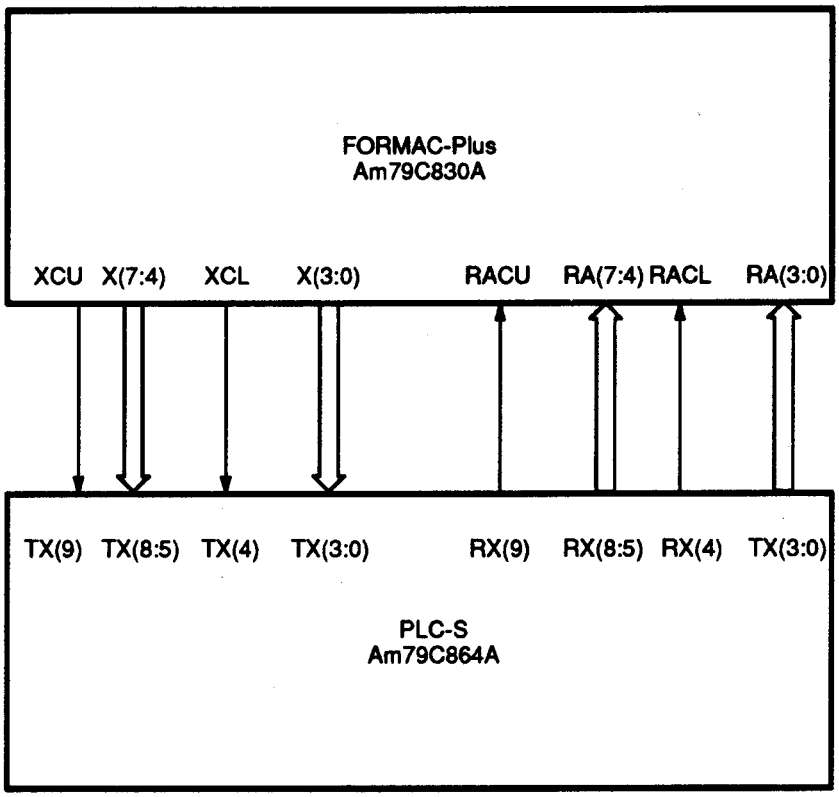
SIDE VIEW

APPENDIX

A INTERFACE CONNECTION DIAGRAMS

Interfacing connection of the FORMAC Plus (Am79C830A) with the Physical Layer Controller with Scrambler (Am79C864A).

Figure A-1. Interface Connection Diagram Between FORMAC Plus and a PLC-S for Single Attachment Station (SAS).

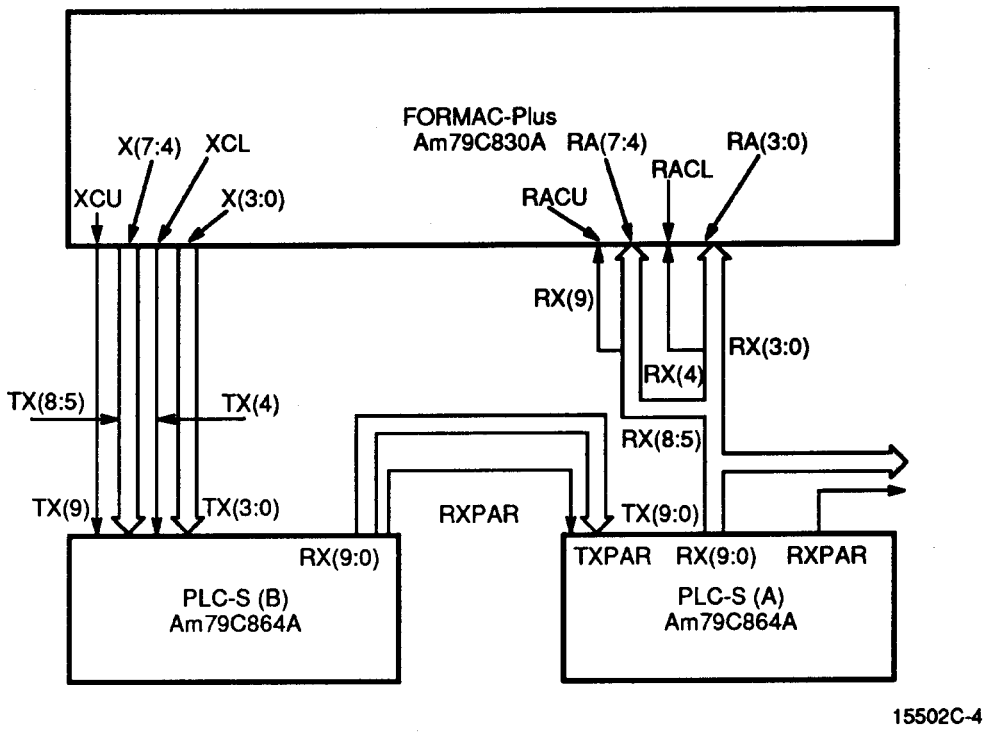


15502C-3

Note:

The above diagram is for a Single Attachment Station (SAS). RB-Bus (of FORMAC Plus) can be used instead of RA-Bus. The TXPAR line should be grounded and the RXPAR line left unconnected since FORMAC Plus does not generate a parity bit for X-Bus. Therefore, the software must mask out the interrupt generated from PLC-S due to parity error.

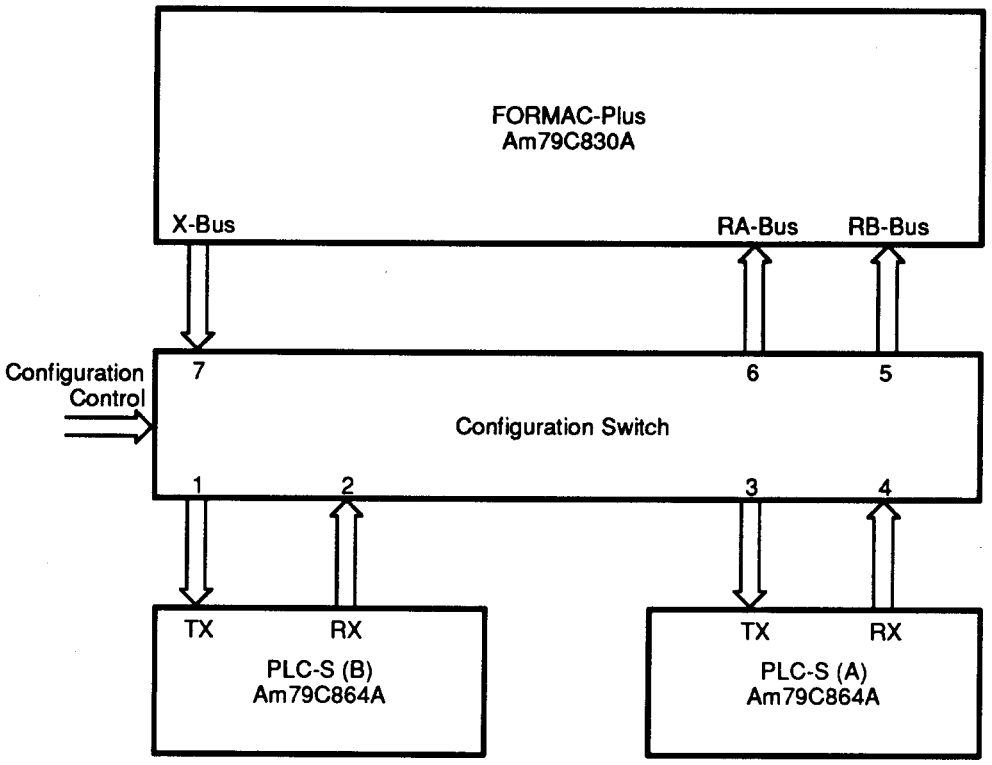
Figure A-2. Interface Connection Diagram Between FORMAC Plus and Two PLC-S' for Single MAC Dual Attachment Station (SMDAS) Without an External MUX.



Note:

The above shows the connections between a FORMAC Plus and two PLC-S' (i.e., for a Single MAC Dual Attachment Station) without any external MUX. THRU_B configuration cannot be realized with this connection. TXPAR of PLC-S (B) is grounded. RA-Bus and RB-Bus could be interchanged.

Figure A-3. Interface Connection Diagram Between FORMAC Plus and Two PLC-S' for Single MAC Dual Attachment Station (SMDAS) With an External MUX.



15502C-5

Note:

The above shows the connection between a FORMAC Plus and two PLC-S' for a Single MAC Dual Attachment (SMDAS) station. This connection will support THRU_B configuration. The Configuration Switch contains 7 paths (3 input and 4 output). The following table shows the connection between different paths for different "Configuration Control."

Configuration Control	Connection Paths
Isolated	2-1, 4-3
Wrap_A	4-5, 7-3, 1-2
Wrap_B	2-5, 7-1, 3-4
Thru_A	4-5, 7-1, 2-3
Thru_B	2-5, 7-3, 4-1

Interfacing Connection of the Physical Data Transmitter (Am79865 PDT)/Physical Data Receiver (Am79866A PDR) with the Physical Layer Controller with Scrambler (Am79C864A PLC-S) and the Physical Medium Dependent (PMD) Optical Transceiver.