

# FAST COMM ETHERFRAD W/T1 CSU/DSU (MODEL 92XX)

## QUAD FRAD

NOTE: THIS FRAD WAS USED IN THE LINKING OF A HOST SITE TO 3 REMOTE SITES IN OKLAHOMA (LUMBERMANS)

EQUIPMENT NEEDED: (FURNISHED WITH FRAD)

STRAIGHT THROUGH (BLACK) FLAT WIRE  
SERIES 004 CONNECTOR (9 PIN) CONNECTOR (FEMALE?)

THE INFORMATION NEEDED FROM THE TELEPHONE COMPANY WHO IS SUPPLYING THE FRAME RELAY LINE:

DLCI NUMBERS AND CORRESPONDING LOCATIONS FOR ALL SITES CONNECTED BY THE FRAME LINE IN QUESTION  
T1 TIMESLOTS (IF USING A FRAD WITH A BUILT IN T1 MODEM)  
MANAGEMENT PROTOCOL TO USE  
CIR (COMMITTED INFORMATION RATE)  
BE, BC BURST TRANSMISSION RATES ( IF DIFFERENT FORM THE CIR)

### **NOTE:**

IF YOU WILL CALL FAST COMM, AND READ YOUR SERIAL NUMBER OFF OF THE FRAD TO THEM, THEY CAN TELL YOU WHETHER YOU ARE USING THE OLDER "NEW" FRADS (WHICH CANNOT BE PROGRAMMED USING A WYSE TERMINAL), BUT WHICH CAN BE PROGRAMMED USING A SPOTLINE TERMINAL. THEY CAN ALSO TELL YOU WHETHER YOU ARE USING THE "NEW " FRADS, THAT CAN BE PROGRAMMED USING A WYSE TERMINAL.

REMEMBER, IF FAST COMM RESPONDS WITH A "NO" USE A SPOTLINE.  
**REMEMBER, IF FAST COMM RESPONDS WITH A "YES". USE A WYSE.**

SPOTLINE SETUP IS AS FOLLOWS:

EMULATION= VT100  
HOST PORT= SERIAL PORT 2  
SERIAL PORT 1 IS SET TO "NOT USED"  
SERIAL PORT 2 IS SET TO TERMINAL  
BAUD RATE IS 9600

WYSE TERMINAL SETUP:

HOST PORT BAUD RATE SHOULD BE SET TO 9600  
YOU WILL NEED A MALE DB9 TO A MALE DB25 CONNECTOR

**NOTE:** IT WILL BE NECESSARY TO HAVE THE CORRECT GENDER CHANGERS FOR YOUR CONNECTIONS IF YOU DO NOT HAVE ITEM "B" AS NOTED ABOVE.

ONCE EITHER OF THE ABOVE IS SETUP (AND POWERED ON), CONNECT THE POWER CABLE TO THE FRAD. AND THE BLACK FALT CABLE TO THE SERIES 004 CONNECTOR

AND THE CONNECTOR TO THE DEVICE THAT YOU ARE GOING TO USE TO PROGRAM THE FRAD.

**PROGRAMMING:**

(Assuming that you have made all the connections above)

Press the return key

YOU SHOULD SEE THE MAIN MENU OF THE FRAD  
CHOOSE OPTIONS THAT FOLLOW

SELECT OPTION 1 FOR "PORT DEFINITIONS"  
SELECT " N FOR NETWORK"  
SELECT " M FOR MODIFY

THE FOLLOWING VALUES SHOULD APPLY

1	SPEED:	ON NEWER FRADS THIS WILL BE SET TO EXTERNAL (OTHERWISE, YOU WILL NEED TO SET THIS SETTING EQUAL TO THE CIR OF THAT REMOTE STORES DESIGNATED LINE)
2	PROTOCOL	(Given by TELCO) (usually this setting will be ANNEX-D)
3	N1:	6
4	N2	3
5	N3	4
6	T1	10
7	T2	15
8	PRIORITY	Traffic Priority Disabled
9	HIGH TO MEDIUM RATIO	4:1
A	MEDIUM TO LOW RATIO	4:1
B	DLCI/CIR INFORMATION ***	

\*\*\***Note:** Choose this option last because this step is more in depth than the others that simply ask you for a number are

CHOOSE OPTION B  
ADD THE DLCI NUMBER , THE CIR , THE BC , AND THE BE OF EACH REMOTE SITE

HIT ESC TWICE

YOU SHOULD NOW BE BACK TO THE MAIN MENU

CHOOSE OPTION 1 AGAIN  
CHOOSE PORT 1 – 4 (DEPENDING ON WHICH REMOTE LOCATION YOU ARE SETTING THIS PORT FOR)

SETUP THESE PORTS UP FOR BIT SYNCHRONOUS ENCAPSULATION.

SPEED:	38400
DATA FORMAT:	NRZ
DCD:	FORCED
IDLE CHARACTER	FLAG
X.25/FR PORT:	NETWORK
DLCI/GPT:	(ENTER THE DLCI NUMBER OF THE REMOTE THAT THIS PORT WILL SERVE)

PRIORITY: MEDIUM

REPEAT THE ABOVE PROCESS FOR ALL REMOTE SITES.

PRESS ESC UNTIL THE MAIN MENU APPEARS.

CHOOSE OPTION 6 T1 CSU/DSU

1 DATARATE: (IF YOU HAVE A CIR THAT IS A ROOT OF 64 THEN  
64K GOES HERE, IF YOU HAVE A CIR THAT IS A  
ROOT OF 56 THEN 56K GOES HERE

2 TIMESLOTS GIVEN TO YOU BY THE TELCO

3 DATATYPE NORMAL

HIT ESC TWICE

FROM THE MAIN MENU CHOOSE **W**

**Y**

**ENTER**

WAIT UNTIL PROMPTED TO PRESS ANY KEY

**SPACEBAR**

**R**

**Y**

**ENTER**

WAIT FOR APPROXIMATELY 30 SECONDS UNTIL THE UNIT RESETS.  
AND THE QUAD FRAD SHOULD BE READY TO GO.