

## Section II. TDM Equipment

### AN/FCC-98(V) Multiplexer Set

Status:     STD-To be determined; NSN: 5820-01-072-0560 (AN/FCC-98(V)1)  
               STD-To be determined; NSN: 5820-01-086-6217 (AN/FCC-98(V)1X)  
               STD-To be determined; NSN: 5820-01-074-5186 (AN/FCC-98(V)2)  
               STD-To be determined; NSN: 5820-01-086-6218 (AN/FCC-98(V)2X)  
               STD-To be determined; NSN: 5820-01-071-6403 (AN/FCC-98(V)3)  
               STD-To be determined; NSN: 5820-01-087-1808 (AN/FCC-98(V)3X)

Reference: TM 11-5805-711-13 (AN/FCC-98(V)1 and (V)1X)  
            MWO 11-5805-711-30-1(AN/FCC-98(V)2, (V)2X, (V)3, and (V)3X)

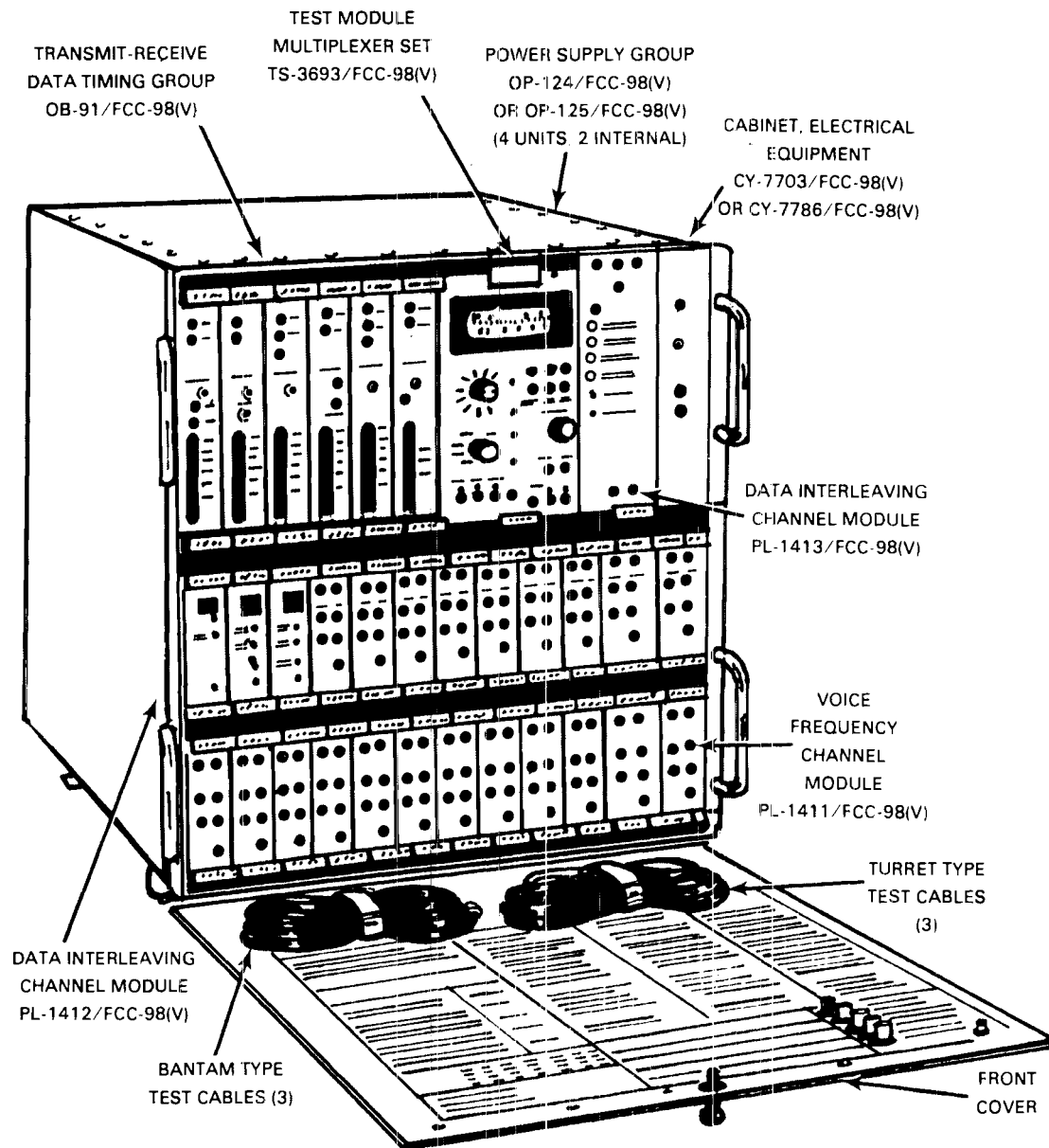
#### General Information

The AN/FCC-98 uses AD conversion and PCM techniques to multiplex and demultiplex nominal 4 kHz analog VF channels for transmission over digital communications systems. It provides data interleaving by replacing VF channel modules with selected data interleaving modules. It features full frame acquisition and monitoring and performs AD conversions and TDM needed to digitize and combine up to twenty-four 4 kHz nominal bandwidth analog VF channels. This set provides AD conversion on 3-, 6-, 12-, and 24-channel increments of 24 analog VF channels. Digital data is interleaved into an output bit stream in time slots assigned to replace VF channels. Demultiplexer circuit modules demultiplex received digital data and perform digital-to-analog conversion required to reconstruct original analog signal. Digital data is extracted from the input data stream and distributed to digital channels which replace VF channels. BITE is an integral test module that measures, tests, and monitors of signals in and out of channel modules and of operation of various internal circuits. It is also used to isolate faulty channel modules and for alignment of replaced modules. Monitor circuitry and alarm circuitry give audible and visible alarm indications when there is a loss of frame or timing or failure to receive or transmit data for a nominal 100 milliseconds or more.

#### Major Components

	(V)1	(V)1X	(V)2	(V)2X	(V)3	(V)3X
Electrical Equipment Cabinet:						
CY-7703			1	1	1	1
CY-7786	1	1				
Test Module TS-3693	1	1	1	1	1	1
Transmit-Receive Data Timing Group:						
OB-88			1	1		
OB-89					1	1
OB-91	1	1				
Power Supply Group:						
OP-124 (AC Power Group)	1		1		1	
OP-125 (DC Power Group)		1		1		1
Voice Frequency Channel Module PL-1411	1	1	1	1	1	1

## AN/FCC-98(V) Multiplexer Set



### Technical Characteristics

Power Requirement-----	117 or 230 V AC $\pm 10$ percent, 47 to 420 Hz, single phase, or -44 to -56 V DC, +4 V DC, -8 V DC
Power Consumption-----	130 W
Weight-----	45.4 kg (100 lb)
Channels-----	24, full duplex
Voice Frequency Response-----	180 to 3450 Hz