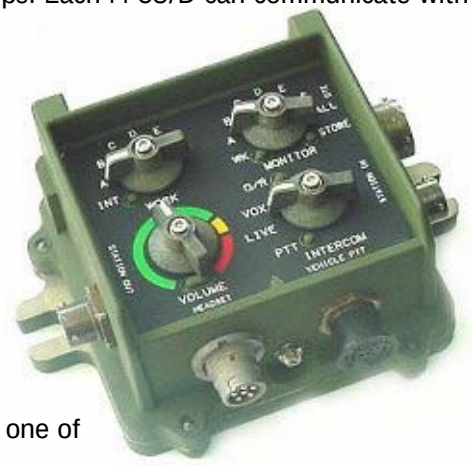
FFCS/D

CHELTON
Defence Communications

Full Function Crew Station Data

The FFCS/D, used in conjunction with the CVC/ANR headset, allows all crew members to communicate with each other on the communal Intercom or over any of up to six on board radios. The connection of a PC or digital terminal unit to the data port allows simultaneous transmission of data at up to 64 kbps. Each FFCS/D can communicate with another independent data port within the data sub-system and can also receive broadcast data messages enabling the displaying of GPS, gunnery or any other platform digital information.



For access to data enabled transceivers the FFCS/D automatically arbitrates between the two modes resulting in the actions being transparent to the user.

The FFCS/D provides operators with all communication capabilities, limited only by Master Control Station programming. The WORK and MONITOR switches permit the operator to transmit and receive (WORK) any one of six possible radios or, to work one of the six radios whilst monitoring any one (or all) of the others. Monitoring of the intercom can be switched on or off as desired whilst working/monitoring radios.

The INTERCOM switch enables the operator to choose between push-to-talk (PTT), continuous (LIVE), Override (O/R) and voice activated mike keying (VOX) of the intercom. The Digital VOX of each FFCS/D independently tracks the ambient vehicle noise level at the microphone of the attached headset and automatically adjusts the turn-on threshold so as to preclude inadvertent keying of the intercom. For Users who operate 'head-out' for significant periods of time, a Crew Chest Unit (CCU) may be connected between the FFCS and the user's headset allowing remote selection of the communication assets from the chest. The VOLUME control allows independent operator adjustment of headset volume to a maximum of at least 110 dBA SPL at the ear.

In addition to the Headset-mounted PTT switches, the FFCS/D provides for the connection of existing AN/VIC-1 vehicle PTT footswitches. Any number of the possible six FFCS/D's can be mounted either above or below a vehicle slip ring and has mechanical mounting centres such that the unit will directly replace AN/VIC-1, AN/VIC-2, Racal BCC-400 & BCC-600, Clansman and Philips 3600 Crew Stations.

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Technical

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Specifications and Standards

Chelton products are designed and independently tested to international standards.

Environmental

Reliability (MTBF) - MIL-HDBK-217

Environmental - MIL-STD-810E :

Low Temperature (-40°C Operational, -57°C Storage, Method 502.3, Procedure I and II)

High Temperature (Hot, Method 501.3, Procedure I and II)

High Temperature plus Solar Radiation (+71°C, Method 505.3, Procedure I and II)

Humidity (Method 507.3, Procedure I and II)

Atmospheric Pressure (945 to 1060 millibars)

Elevation (Method 500.3, Procedure I and II)

Sand & Dust (Method 510.3)

Rain (Method 506.3, Procedure I)

Salt Fog (Method 509.3 Procedure 1)

Immersion (Method 512.3, Procedure I)

Vibration (Method 514.4, Procedure 1, Category 8)

Shock (Method 516.4, Procedure IV and VI & MIL-S-901)

Fungus (Method 508.4)

Explosive Atmosphere (Method 511.3, Procedure 1)

Electromagnetic Compatibility - MIL-STD-461C

Part 4 (CE01, CE03, CE07, CS01, CS02, CS06, RE02, RS02 and RS03)

Electromagnetic Pulse - MIL-STD-461C part 4, (RS05 and CS11)

Electrostatic Discharge - IEC 801-2:2, level 4

Rapid Speech Transmission Index (RASTI)

Mechanical Dimensions and Weights

Height (mm)	Width (mm)	Depth (mm)	Mounting (mm)	Weight (kg)
78	140	115	140	0.9

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