SECRET-CRYPTO

CRYPTOGRAPHIC EQUIPMENT
PLANNING AND REFERENCE
GUIDE (U)

CSP 6620A

DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
SEPTEMBER 1962

DO NOT REMOVE FROM BINDER

DECLASSIFIED per SEC 3.4 E.O. 12358
by Director, NCA/Chief, CSS
1/27/04

EXCLUDED FROM AUTOMATIC
DECLASSIFICATION PROCEDURE
PPLY PDIR 5220.10
TSEC/HW-19A
**TSEC/HW-19A**

**DESCRIPTION**
A BASIC ELECTRONIC TELETYPewriter SIGNAL MIXER USED IN ON-LINE HALF DUPLEX OR OFF-LINE APPLICATIONS. IT COMBINES, BY BINARY ADDITION, THE FIVE LEVEL CODE OF THE TELETYPewriter CHARACTERS, WHICH ARE ON A ONE-TIME KEY TAPE, WITH THE FIVE LEVEL CODE OF THE TELETYPewriter CHARACTERS TO BE ENCIPIHERED OR DECIPIHERED. IT IS USED IN CONJUNCTION WITH THE HW-10 WHICH READS THE ONE-TIME TAPE IN PYTHON OPERATION. THE OUTPUT CONSISTS OF A START-STOP NON-SYNCHRONOUS TELETYPewriter SIGNAL AT SPEEDS OF 45,5 TO 75 BAUD. (50-100 WPM)

PREVIOUS DESIGNATION: AFSAZ 7319

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**STATUS**
APPROVED FOR SERVICE USE (OPNAVINST 02551.18 OF 23 JAN 1961 REFERS) SPARE PARTS SUPPORT — ESO

**TRAINING**
NO SPECIALIZED TRAINING REQUIRED.

**CRYPTOSYSTEM**
CURRENTLY USED ONLY WITH PYTHON

**CLASSIFICATION**
EQUIPMENT: UNCLASSIFIED
KEYING MATERIAL: SEE HW-10 SECTION
TRAFFIC: ALL CLASSIFICATIONS (FOR TOP SECRET AND SPECIAL CATEGORY TRAFFIC CSPM 1C, 1-90 REFERS)

**PUBLICATIONS**
MAINTENANCE: KAN-40 (UNCLAS)
OPERATING: KAO-6 (CONFIDENTIAL-CRYPTO)

**PROCUREMENT**

<table>
<thead>
<tr>
<th>UNIT COST</th>
<th>UNIT COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000</td>
<td>$3,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COST IN THOUSANDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTY</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>866</td>
</tr>
</tbody>
</table>

**PHYSICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>VOLTAGE</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 1/2 IN.</td>
<td>18 7/8 IN.</td>
<td>23 1/4 IN.</td>
<td>89 LBS.</td>
<td>115 (60 CPS)</td>
<td>200 WATTS</td>
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</tbody>
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**ASSOCIATED EQUIPMENT**
C-2842/UG: SEE HW-10 SECTION FOR INFORMATION

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**UNCLASSIFIED**
UN LSSIFIED