



STATE ENTERPRISE
«SCIENTIFIC AND
PRODUCTION COMPLEX

«ISKRA»



MM-36D6 MAINTENANCE MODULE

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Maintenance module (MM) is designed to control serviceability, diagnostics and renewal of Line Replacement Units (LRU) being incorporated in the Radar: digital, digital-to-analog and analog cells; high frequency units and subunits; PCBs and secondary power supply units.

MM INCORPORATES THE WORKSTATIONS:



WS-1 (Workstation 1) is designed for diagnostics and fault finding up to the element level (a group of elements) of digital and digital-to-analog LRUs based on TTL, CMOS or mixed TTL-CMOS logic as well as LRUs having analog elements with signal levels over the range from

WS-1 is made applying the automated diagnostic complex and is completed with multi-purpose programmer "UNIPROG".

The diagnostic complex consists of hardware, software and repair databases for the teste LRUs.

The hardware consists of 135-channel test-processor, 16-channel logic and signature analyzer and 6-channel analog generator and performs the following functions:

- Testing of PCBs via connectors with simultaneous recording of the PCS reaction for test;
- In-circuit testing of the PCB and elements;
- Providing LRUs under test with power supply.



WS-2 (Workstation 2) is the PC-based measuring-diagnostic complex, which is designed to diagnose and measure the high-frequency LRU parameters.

The complex incorporates:

- RF and UHF units of oscillators being controlled;
- Digital oscilloscope;
- Spectrum analyzer.



WS-3 (Workstation 3) is a multi-purpose workstation, intended for diagnostics of failed cells, assemblies, subunits and units providing switching, check and control, obtaining secondary voltages, processing and conversion of analog signals as part of the radar units and cabinets. **WS-3 possesses the built-in facilities of protection, control and check of its main parameters.**



WS-4 (Workstation 4) is a multi-purpose repair station. It is equipped with a set of fixtures, tools and special-purpose equipment.

The dismantling of faulty radio elements, the radio elements performing, soldering of newly mounted elements and varnishing are accomplished at WS-4.

MM-36D6 is provided with Spare Parts, Tools and Accessories to repair six radars, radar reference LRUs, complete test-programs for LRUs being repaired and signatures for cells being tested.

MM-36D6 is located in the transportable module on the basis of a sea container with overall dimensions 6100x2450x2600 mm and equipped with the air-conditioning, ventilating and heating systems.

Power supply of MM-36D6 is fed: from stationary industrial networks of three-phase voltage 380 V, frequency 50 Hz; from the stand-alone power supply source. Consumed power is not more than 10kW.