

# MS2M-A

## Communication module

MC2M-A is intended for executing of the intercommunication equipment functions, interfaced RCE switching and control, voice warning system (VWS) functions.



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### MS2M-A performs the following ICS functions:

- voice warning of the crew on the onboard emergencies;
- transmission of the signs, determining the required VWS messages replaying, via the radio set;
- recording of the replayed messages in non-volatile memory and their repeated replaying;
- sequential replaying of voice messages in case of the simultaneous receiving of the several input signals;
- breaking of the replayed message and availability of its full complete replaying when the input signal with higher priority is received at VWS input;
- manual breaking of any voice message as well as repeated listening of the message in case of the signal availability from transducer presence.

### MS2M-A consists of:

- CIMS-A digital integral communication module;
- control panels (B8-29A units) providing automated ICS and RCE control;
- control panels (B7-29A units) providing ICS control.

## MS2M-A performs the following ICS functions:

- internal telephone communications among the six crewmen (two pilots and cargo cabin users) during flight;
- internal telephone communications between pilots, cargo cabin users and ground maintenance personnel (GMP) during preflight preparation;
- selection of the internal communications network (network 1 - cockpit; network 2 - cargo cabin);
- external communications via any of three airborne radio sets - Prima-DMV-1A, Prima-MV and Prima-KV;
- listening to the signals from three radio sets as well as simultaneous listening by the crew;
- listening to NAV signal by the crew;
- listening to special tone signals;
- listening to external radio communication signals during internal communication and listening to signals of internal communication during external radio communication;
- listening to VWS signals;
- independent intercom and external communication volume tuning for each crewman;
- independent NAV signal listening volume tuning for each crewman;
- adjustment of the volume of the radio set for additional listening;
- transmission of the signals to cockpit voice recorder;
- transmission of the signals to passenger addressing system (PA);
- transmission of the signals to public addressing system (SGU)

## MS2M-A provides RCE equipment controlling:

- control of three radio sets from radio control panel (RCP) - B8-171 unit;
- control of three radio sets from external devices;
- receiving and processing of selective call via HF radio set;
- synchronizing of two RCP, two B7-29A5, one B7-171, one B7-29A4 unit and external control device operation;
- non-volatile storage of three radio sets radio data;
- control of three radio sets with indication of the selected operating modes;
- testing of interfaced RCE operability and the testing results displaying on RCP;
- indication of the operation mode of the radio set, controlled by external device.

## Specifications:

Parameter	Value
Power supply from aircraft mains, V	18-33
Quantity of users (including ground maintenance personnel)	8
Quantity of the connected radio sets	5
Quantity of connected channels of ground maintenance personnel	3
Power consumption, W, max	35
Operating temperature, °C	от -60 до +60
Mean time between failures, hours	5000
Dimensions (WxHxD), mm	131,5x224x336
Weight, kg, max	5.5

