



**DESCRIPTION**

New generation of airborne radios are designed based on the SDR (Software Defined Radio) technology. Benefiting from the technology an appropriate infrastructure is provided for data transmission and establishing data link networks as well as improving technical specifications and stability in comparison with the old radios. ARC-620 is a VHF/UHF airborne Software Defined Radio in a way that it can be substituted with the ARC-1400 old radio properly. This radio can be installed inside various jetfighters, cargos, and helicopters. Proportionate to the plane, there are several different remote control systems installed inside the cockpit to perform control commands remotely.



General specifications	
Frequency range	UHF: 225-399.975MHz, VHF: 108-173.975MHz
Channel spacing	8.33KHz/12.5KHz/25KHz
Modulation type	AM:A3E, FM:F3E, ECCM:FSK
Data transmission	16kbps rate in the ECCM mode
Transmitting specifications	
Output power	AM and FM modes: 20W ± 1dB ECCM mode: 100W peak ± 1dB
Input audio	Local: Unbalanced with 150Ω impedance and -35dBm to +10dBm power with capability of microphone bias Line: Balanced with 600Ω impedance and -15dBm to +10dBm dynamic range
Modulation factor	AM mode: at least 80% FM mode: ±5KHz frequency deviation in 25KHz channel spacing ±2.5KHz frequency deviation in 12.5KHz channel spacing
Modulation distortion	maximum 5% in environmental test condition: maximum up to 10%