



AN/APX-101 Mark XII IFF Transponder

The mainstay of numerous frontline military fighter, transport and helicopter fleets.

The AN/APX-101 Diversity Transponder incorporates Modes 1, 2, 3/A, 4 and C. Operational features include direct interfaces to Remote Control Unit, upper and lower antennas, alticoder, and KIT-1 encryption device along with Build-in-Test.

Originally designed and manufactured in the 1970s by Teledyne Electronics, the AN/APX-101 became the mainstay of numerous frontline military fighter, transport and helicopter fleets. It was standard issue on the F-16 Fighting Falcon, along with the F-15 Eagle, A-10 Thunderbolt II, KC-10 Extender, E-3 Sentry, C-130 Hercules and the F-5 Freedom Fighter/Tiger II.

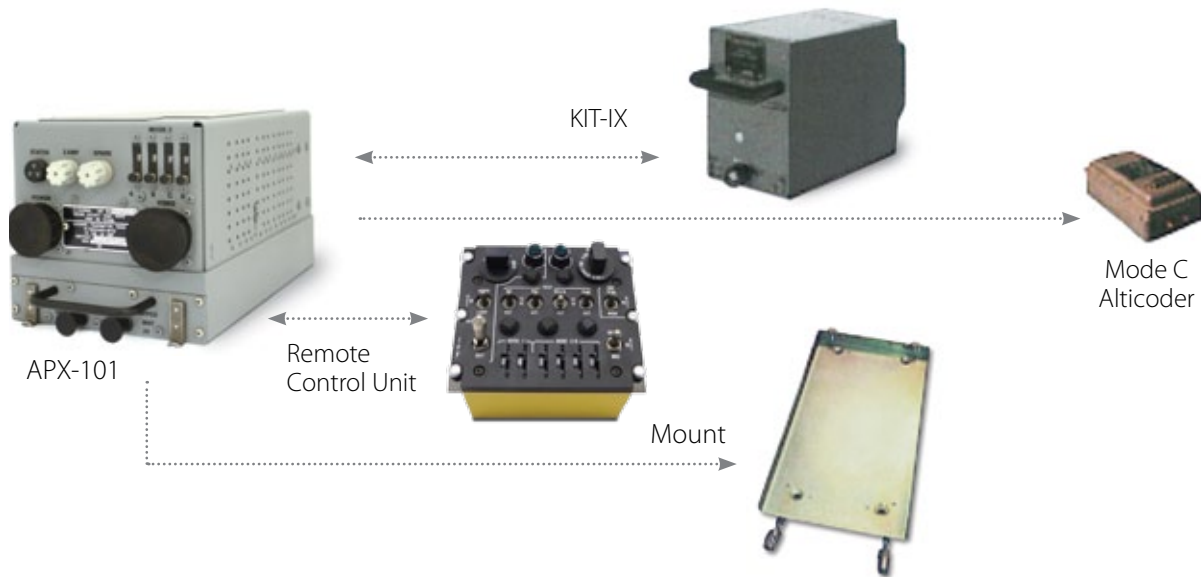
The APX-101 is a solid-state, modular, Mk XII diversity IFF transponder. It features crystal-controlled pulse width, discrimination, decoding and encoding to ensure accurate interrogation responses while built-in test provides an immediate status indication for the pilot. The system receives Radio Frequency (RF) interrogations from two antenna systems, decodes them into the proper mode, encodes the selected reply and transmits the coded reply via the appropriate antenna.

AAMSI provides repair and manufacturing services under license from Northrop Grumman Corporation.



Quality through continuous improvement

AN/APX-101 Mark XII IFF Transponder



Decoder/ Encoder

Modes 1, 2, 3/A, 4 & C

Receiver

Solid State
Dual-channel TRF
1,030 1.5 MHz Frequency
Bandwidth:
6 dB points, 7.0 to 9 MHz
Sensitivity:
- 76 dB points.
(-77 to -73 adjustable)
- 65 dBm Low Sensitivity

Transmitter

Solid State
1,090 3 MHz Frequency
Output:
24 dBW (54 dBm) minimum
30 dBW (60 dBm) maximum
at 1 percent duty cycle

Interfaces

Discrete

Reliability

1,200 hrs MTBF

Input Power

28 VDC
65 Watts Nominal

BIT / BITE

Transponder BIT indicator
RCU (C-6280) Monitor
BIT test GO
BIT monitor NO-GO
Antenna NO-GO
Mode 4 computer NO-GO
Less than 95% Fault Detection

Dimensions

Width	Height	Depth
6.00	5.80	10.82
15.24cm	14.73 cm	2 7.48 cm

Weight

14.3 lb or 6.5 kg

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