

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

**Visit our website - *Click HERE***






**APX-119 TRANSPONDERS**

# EMPOWERED BY INNOVATION

## Discover the benefits of advanced transponder technology

When it comes to connecting aviation, Collins has the industry-leading communications technology and experience you're looking for.

Our APX-119 transponders incorporate full Mk XII, Mode 5, Mode S and ADS-B capabilities and feature a flexible, open systems architecture -- enabling cooperative identification and increased safety across a range of aircraft platforms.

Collins Aerospace has leveraged more than 50 years of Identification Friend or Foe (IFF) experience in the development of the APX-119 digital transponder family. The combined Mk XII/ Mode S/Mode 5/ADS-B capability enables aircraft to operate seamlessly throughout domestic and international, civil and military airspace, while meeting all IFF and ATC requirements.

The APX-119 operates with the KIV-77 Mode 5 crypto appliqué. The appliqué design reduces the logistics requirements associated with an embedded COMSEC approach. The APX-119 has an existing installed base of over 15,000 units on more than 150 different platform types for the U.S. Department of Defense (DOD) and multiple international users.

### KEY FEATURES & BENEFITS

- AIMS certified, TSO approved
- Optional embedded GPS
- Supports commercial derivatives and military-unique platforms
- Hosts Mode 5 and NMS secure appliqué
- Mode S elementary/enhanced capability via ARINC 429 or MIL-STD-1553B
- Plug-and-play solution for transponder upgrades
- Selectable front panel maximizes compatibility with aircraft interfaces
- Supports various panels, with growth slots to meet future requirements

Collins Aerospace
An RTX Business

# APX-119 Transponders

## FRONT PANEL CONFIGURATIONS



*Standard 429 front panel*



*MIL-STD-1553B front panel*



*eGPS front panel*



*Special mission front panel*

## DESCRIPTION

- Fully compliant with DO-181E, DO-260B and DO-185B/TCAS II compatible
- U.S. DOD AIMS-03-1000B, amendment 1 certified, and NATO STANAG 4193 compatible
- TSO approvals; TSO-C112e, TSO-C166b and TSO-C145d (eGPS)
- Fit and form replacement for existing APX-100 and APX-101 transponders
- Compatible upgrade for APX-64, APX-72, APX-108 and panel mount transponders
- MIL-STD-1553B, RS-485, RS-232, ARINC 429, discrete and Ethernet interfaces
- Demonstrated MIDS/FDL/JTIDS compatibility
- Highly demonstrated field reliability
- Multiple ARINC 429 ports for direct connect to avionics

## GENERAL SPECIFICATIONS

| | |
|---|---|
| **Primary power** | +18 to +32 VDC, 30 W nominal; 50 W maximum |
| **Transmit center frequency** | 1090 +/-0.1 MHz |
| **Receiver frequency** | 1030 +/-0.05 MHz |
| **Peak power output** | 57 ±2 dBm |
| **Electromagnetic compatibility** | MIL-STD-461E and DO 160E |
| **Temperature range** | -40°C to +71°C |
| **Dimensions (H x W x D)** | 5.375 in x 5.375 in x 8.375 in (13.65 cm x 13.65 cm x 21.27 cm) |
| **Weight** | 10 lbs (4.5 kg) |

Specifications subject to change without notice.

Collins Aerospace
An RTX Business

**COLLINS AEROSPACE**

IFFProducts@rtx.com
collinsaerospace.com

24-4539556 03/24 © 2024 Collins Aerospace
Collins Aerospace is a trademark or registered trademark of Collins Aerospace companies.

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP