

Radar Enhancing C-Band Transponder



Features

- Miniature transponder
- RCC-262-02 compatible
- Solid state design
- C-band 5.4-5.9 GHz
- High efficiency power supply
- Programmable via a serial COM port
 - Receiver and Transmitter Frequency
 - Pulse Width
 - Code Spacing
 - Reply Delay
- Sensitive superheterodyne receiver
- Crystal-controlled frequency stability
- Small form factor (5 cubic inches)
- Light weight (6 ounces)
- Mismatch protected from high antenna VSWR
- No pressurization required

Applications

- Instrumentation tracking radar
- Range expansion/enhancement
- Flight tests of various airborne vehicles

Description

The XPDR-520 series transponder from Teletronics Technology Corporation is the next generation of C-band transponders. It is used primarily to augment and enhance the tracking capabilities of C-band ground radars.

The unit provides 20 watts of pulsed RF output with typical power consumption of 5 watts, giving this product line one of the lowest current draws in the industry today.

The XPDR-520 is backward-compatible so that its form-factor matches legacy systems. There is no need to replace existing technology.

The transponder is programmable with the TTCWare configuration application or over a serial communications port using terminal emulation. An optional RS-485 multi-drop interface is also available.

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XPDR-520 Datasheet

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