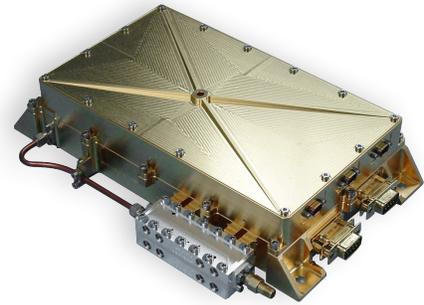


X-Band HR DownLink

XDL-C301-HR

Honeywell introduces a new family of flexible high efficiency DownLink products to the space market. The HR Variant is an innovative DownLink transmitter with flexible SDR functionality and has been optimized for small to medium size missions that demand high data rates and established PA standards



General	
Input data rate	Up to 700Mbps
Expected life	>6.5yrs
Reliability / Class of Equipment	ECSS Class 3 or COTS (High Reliability) Tailored ECSS class 3
Weight	<1.5kg
Size (mm)	165x150x100mm
Power Consumption (W)	<65W at 39dBm dependent on operating mode
Supply voltage range (V)	20-36V
Temperature range (deg C)	-25C to +55C operating -35C to +65C non-operating
Random Vibration	25 g rms (all axis)
Radiation Tolerance	12krad (TID), 20MeV SEE
frequency range (MHz)	8025-8400 MHz in 1 MHz steps
Output power range (user configurable)	33-39dBm tuneable
Modulation Formats	QPSK, 8PSK, 16APSK, 32APSK, 64APSK
Coding Options	CCSSDS 131.2-B-1
Data Rates	Function of ACM (@ACM12 >600Mbps)
Data Interface	LVDS synchronous serial interface
RF Interface	Coaxial SMA 50Ohm
TTC Interface	RS422/UART protocol
Filtering	Compliant with ITU regulations
Lead Time	12 month

A high reliability COTS variant (XDL-MS01-HR) of this product is also available. For more details please contact Honeywell.

For more information

To find out more about our offering, visit aerospace.honeywell.com/en/product-listing/space or contact us at aero.marketing@honeywell.com

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Main features:

- Optimized for small to medium satellites
- Suitable for high data rate applications (400Mbps to 600Mbps typical)
- Low mass and low volume unit
- High Efficiency / Low Power consumption
- User-selectable configuration
- Telemetry/Telecommand via RS-422 or UART protocol
- Flexible SDR design, selectable modulation and output power configurations
- QPSK, 8PSK, 16APSK, 32APSK, 64APSK
- Selectable coding
- LVDS synchronous data ports with auto detection

This is the second of a series of X-Band DownLinks introduced by Honeywell aiming to complement the existing range of compact downlink transmitters for small/medium satellites.