

300 MHz to 2800 MHz Dual-Radio Multiband Digital Data Link

The FDR3025 is a compact, resilient, jam resistant, dual-multiband digital data link. Engineered for maximum interference immunity, it supports ultra wide-band frequency hopping across nearly 3 GHz of spectrum in a single SKU. The FDR3025 delivers seamless video and telemetry transmission even under heavy jamming conditions, using dual independent hopping across its two radios.

Each radio works cooperatively to blast through jamming, leveraging advanced spreading and processing-gain techniques that maintain link integrity in contested and degraded RF environments. It features frequency-hopping diversity on both uplink and downlink paths, ensuring robust, resilient, and secure telemetry communications.

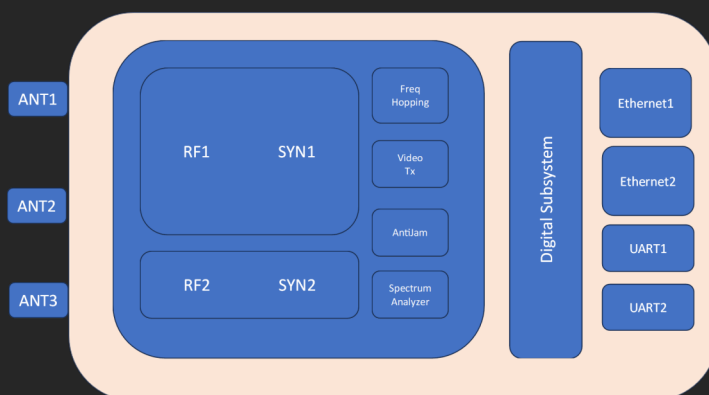
Dual Radio Architecture with independent frequency hopping makes it extremely difficult to jam.

Only 95 grams!



1.42" X 2.6" X 0.88"

Dynamic Frequency Selection on OFDM overlay and Fast Frequency Hopping provide robust interference and jam immunity!



Available only to Qualified Customers under NDA

Dual Multiband Software Radios

Software PGM 300 to 2800 MHz

Interference & Jam Resistant

Fast Frequency Hopping (10ms)

Split TX RX Frequency Capabilities

Dual Ethernet + Dual Serial Port

Video Broadcast Modes

◆ **Dual Radio** ◆ **2X2 MIMO** ◆ **Multiband** ◆ **Jam Immunity**

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Specifications



Frequency (Software Selectable)	300 - 2800 MHz	Connectors	Antenna: 3x MMCX (ANT1, ANT2, ANT3) Power: 4-Pin (GHR-04V-S) ETH1/ETH2: 8-Pin (GHR-08V-S) UART1: 6-Pin (GHR-06V-S) UART2: 5-Pin (GHR-05V-S)
Wireless Data Rate	> 21 Mbps	Environmental	Temperature -40°F to 185°F (-40°C to +85°C) Humidity 5-95%, non-condensing
Error Detection	CRC, ARQ	Weight	~95 grams
Encryption (Requires Export Permit)	256-bit AES	Dimensions	1.42 x 2.6 x 0.88" (36 x 66 x 22.5 mm)
Output Power**	Up to 3W 10W with External Amplifier	Order Options	
Ports Serial Data/Console Ethernet USB	RS232 Level (300bps to 230kbps) 2 Ethernet 10/100 2.0	FDR3025	300-2800 MHz Dual-Radio Multiband Digital Data Link
Firewall	Port Forwarding, Access Control, IP/MAC List.		
Operating Modes	Point-to-Point, Point-to-Multipoint, Repeat- er, Mesh, Video Broadcast		
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPPerf, RSSI		
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		
Rejection	Excellent strong signal interference & rejection characteristics		
Input Voltage	8-30 VDC		

* Future - Higher Data Rates

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** External Amplifiers can add more power, see Microhard
PA Series for higher power



Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

www.microhardcorp.com
 info@microhardcorp.com
 1-855-353-0028