

## Gemini G3-ADB™

### **Agile Dual-Band Mobile for Private Networks**

The Dataradio Gemini G3-ADB operates in the private licensed 700 and 800 MHz spectrum. Designed specifically for government, public safety agencies and public utilities, this agile dual band (ADB) model integrates the necessary functionality for data-only vehicular installations.

The Gemini combines 700 and 800/NPSPAC in a single unit that offers seamless roaming across any combination of these channels.

Our patented Parallel-Decode technology, featuring dual receivers, and the use of HyperCode forward error correction, allow for greatest sensitivity especially in multi-path and fading environments. Equipped with a 12-channel GPS receiver, the Gemini can determine the position, speed and direction of the vehicle. This can then be reported on-board the vehicle and/or to a remote dispatcher.

Embedded web server provides browser access for status and configuration of network parameters. Since the unit firmware and reconfigurations can be reprogrammed over-the-air, maintenance and upgrades are greatly facilitated.

The Gemini comes with a one-year warranty. Extended warranty plans are available.

#### **Key Features**

- Parallel Decode with intelligent combining dual receivers
- Highly sophisticated and powerful HyperCode forward error correction
- Base hunt mechanism scans and measures RSSI
- Integrated GPS
- Triple IF filters
- On-line and off-line diagnostics
- AES 128-bit data encryption

#### **Key Benefits**

- Provides added decode sensitivity in multi-path and fading environments
- Maintains connectivity and throughput while in motion
- Provides seamless roaming between bases
- Supplies location info for AVL and for local mapping
- Supports a mix of channel bandwidth
- For real-time network performance statistics
- Additional cyber security for the data and the network

High Speed

Long Range

Ruggedized

Safe/Secure

Diversity

Connectivity





# Gemini G3-ADB Specifications

700 MHz		800MHz	
787 - 788		809 - 824	
757 - 758		854 - 869	
25 and 50 kHz		12.5kHz (IC) / NPSPAC (FCC) and 25 kHZ	
30MHz		45 MHz	
6,25 kHz			
± 1.0 ppm (± 0.4 p	pm with AFC, Paragon4	base station required)	
Half-Duplex			
25 kHz	50 kHz	12.5 kHz (IC) / NPSPAC (FCC)	25 kHz
		-115 dbm @ 16 kbps	
		-109 dbm @ 24 kbps	
-107 dbm @ 32 kbps		-103 dbm @ 32 kbps	-108 dbm @ 32 kbps
-103 dbm @ 43.2 kbps	-		-104 dbm @ 43.2 kbps
-99 dbm @ 48 kbps		-100 dbm @ 48 kbps	
-92 dbm @ 64 kbps	-103 dbm @ 64 kbps	-94 dbm @ 64 kbps	
	-98 dbm @ 96 kbps		
	-92 dbm @ 128 kbps		
700 MHz		800 MHz	
10 to 30		10 to 35	
> 75			
32 Internally Stored (Over the Air Programmable)			
Ethernet/IP (Any protocol running over IP, such as ICMP, IGMP, TCP, UDP, SNTP, etc.), IP Fragmentation,			
ARP, IP Directed Broadcast, IP Limited Broadcast, Multicast, DHCP Server, NAT, RIPv2			
		tel a ben caratina est co	
SMA			
10/100 BaseT auto-MDIX, RJ-45			
418 41 (4-14) 42 (4-14) 42 (4-14) 43			
Dual TNC Female			
15 Amp External Fuse			
Market Ma			
33			
-22 to +140 °F (-30	to +60 °C)		
Taking from the Control of the Contr			
MIL 810E, Method 516.4, Procedures I, VI			
mile o rolly method o	,		
FCC Part 15-B			
FCC Part 15-B			
	78 75 25 ar 30 6,25 kHz ± 1.0 ppm (± 0.4 p Half-Duplex 25 kHz  -107 dbm @ 32 kbps -103 dbm @ 43.2 kbps -99 dbm @ 48 kbps -92 dbm @ 64 kbps  70 10 > 75 32 Internally Stored Ethernet/IP (Any proto ARP, IP Directed Bro HTTP embedded we  SMA 10/100 BaseT auto- Dual EIA-232F DE9 II Dual TNC Female 10.9 to 16.3 VDC (13 PWR/PGM, TX/RX, L 6.0" x 2.0" x 7.1" (15 4.5 lbs (2.04 kg) 15 Amp External Fu Rugged Die-Cast Alu -22 to +140 °F (-30 95% at 40 °C (104 ° MIL 810E, Method 5	787 - 788 757 - 758 25 and 50 kHz 30MHz 6,25 kHz ± 1.0 ppm (± 0.4 ppm with AFC, Paragon4 Half-Duplex 25 kHz 50 kHz -107 dbm@32 kbps -103 dbm@43.2 kbps -99 dbm@48 kbps -92 dbm@64 kbps -92 dbm@128 kbps 700 MHz 10 to 30 > 75 32 Internally Stored (Over the Air Programm Ethernet/IP (Any protocol running over IP, such a ARP, IP Directed Broadcast, IP Limited Broad HTTP embedded web server for setup and h  SMA 10/100 BaseT auto-MDIX, RJ-45 Dual EIA-232F DE9 Female DCE (300 to 115, Dual TNC Female 10.9 to 16.3 VDC (13.6 Nominal), Negative PWR/PGM, TX/RX, LNK/ACT 6.0" x 2.0" x 7.1" (15.2 x 5.1 x 18.0 cm) 4.5 lbs (2.04 kg) 15 Amp External Fuse Rugged Die-Cast Aluminum  -22 to +140 °F (-30 to +60 °C) -22 to +140 °F (-30 to +60 °C) -52 to +140 °F (-30 to +60 °C) 95% at 40 °C (104 °F) Non-Condensing MIL 810E, Method 514.4, Procedure I (10)	787 - 788

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