Product Overview

Innovation in Iridium Antennas
Solutions from Hirschmann

The Hirschmann advantage

Hirschmann Car Communication formed the business unit Hirschmann Solutions as a reaction to the increasing demands for its communication technology coming from the telematics and M2M sectors. Increasingly the use of data transmission is a standard component in a wide variety of applications and therefore reliable performance is paramount. Hirschmann Solutions is able to provide its customers with cutting edge products at competitive prices.

Hirschmann Solutions is proud to successfully serve a growing customer base with full portfolio of high performing, IRIDIUM CERTIFIED antenna products.

Contact us to discuss your requirements and get detailed information along with your tailored quote.

The right solution on hand

Reliable network access and call quality are the keys to successfully use satellite communication technologies.

Discover the latest IRIDIUM antenna technology in exciting products:

IRIDIUM Magnetic Mount
IRIDIUM/GPS Combination
IRIDIUM/GPS/WLAN Combination
IRIDIUM/GPS/CELL Combination
IRIDIUM Embedded
IRIDIUM with embedded modem

All required functions in compact designs, high performance and low cost — simply Hirschmann's Iridium antenna portfolio.

Portfolio

IRIDIUM only magnetic mount
18mm height; 63 x 63mm small footprint
Magnetic mount, customization options

IRIDIUM/GPS and **IRIDIUM/GPS/WLAN** Combination
21mm low profile; 124 x 80mm footprint
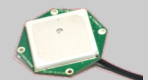Screw mount, customization options

IRIDIUM/GPS/CELLULAR Combination
The world's first Iridium/Cellular combination antenna
69mm height; 124 x 80mm footprint
Screw mount, customization options

IRIDIUM embedded
7mm height; 52 x 52mm footprint
PCB or PCB on chassis, customization options

ITAS—IRIDIUM with embedded 9602 modem
The complete solution for plug-and-play
31mm height; 124 x 80mm footprint
Standard 8-32V onboard power regulation
Optional version for 5V regulated power supply
RS-232C serial interface
Pigtail cable or integrated M12/8 connector

ITAS 832SP

Portfolio Overview

- Overview table on standard versions of Hirschmann Iridium antennas
- Customization of cable lengths and connector configurations is possible

IRIDIUM Portfolio

Basis Product Versions—please ask for other available configurations

Product Standard Versions	HIRD-MX-0106A-02 Iridium only	HIRD-MX-0106A-05 Iridium only	HIRD-MX-0108A-01 Iridium only	920 142 001 Iridium only	HIRD-IX-0111A-01 Iridium only	HIRD-SG-0103A-01 Iridium/GPS	HIRD-S2-0101A-01 Iridium/GPS/ WLAN	HIRD-S2-0105A-01 Iridium/GPS/ Cellular	HIRD-SX-0129A-01 ITAS 832SP ITAS 5SP
Mechanical									
Cable type	RG174LL	RG174LL	RG58LL	RG174	RG174	RG174LL	RG174LL	RG174LL	8-wire RS-232
Cable length in mm	1500	2500	4570	150	150	200/170	200/170/140	200/170/140	254
Connector type	SMAm	SMAm	TNCm	SMAm	SMAm	2x SMAm	3x SMAm	3x SMAm	M12/8 male
Dimensions in mm	63 x 63 x 18	64 x 63 x 18	65 x 63 x 18	100 x 66 x 21	52 x 52 x 7	124 x 80 x 21	124 x 80 x 21	124 x 80 x 69	124 x 80 x 31
Mounting option	magnetic	magnetic	magnetic	screw	screw / stake	screw	screw	screw	screw
Extension Cables	RF—on request	RF—on request	RF—on request	RF—on request	RF—on request	RF—on request	RF—on request	RF—on request	Serial—on request
Antennas									
Iridium	yes	yes	yes	yes	yes	yes	yes	yes	yes
GPS						yes	yes	yes	
Cellular								yes	
WLAN / Bluetooth							yes		
Electrical									
GPS LNA						yes	yes	yes	
Embedded Modem									Iridium 9602
Data Interface	Standard RF	Standard RF	Standard RF	Standard RF	Standard RF	Standard RF	Standard RF	Standard RF	serial RS-232C
Voltage supply						3 - 5.5VDC	3 - 5.5VDC	3 - 5.5VDC	8-32V (5V opt)
Current Consumption						≤13mA at 5V ± 0.5V typ. 10mA	≤13mA at 5V ± 0.5V typ. 10mA	≤13mA at 5V ± 0.5V typ. 10mA	1 Amp max transmit
Transient Protection									SAE J1113/11/12
Rev. Voltage Protection									24V tested

The latest in Iridium Antenna Technology — ITAS

Developed in cooperation between Hirschmann Car Communication, Quake Global and Inthinc the ITAS is an efficient, satellite add-on solution, allowing customers to effortlessly connect to Iridium's (Short Burst Data) SBD satellite network. It is fully qualified and certified to operate through harsh environments. The ITAS' simple installation and integration make it optimal for any developer who is facing an accelerated time-to-market requirement. This functionality significantly reduces development time and costs, and makes the ITAS ideal for use in applications for the M2M market, including remote asset tracking and monitoring solutions.

Simply—the latest modem and circuit technology paired with best antenna performance and high-end quality in an Iridium certified communication module to deliver maximum flexibility for advanced system designs.

Contact us to discuss your application: