The Quintet[™] offers incredible versatility. It can be used in almost any cellular system, will provide superior performance to externally glass mounted antennas and yet can be mounted quickly and easily inside the vehicle with no external components.

A derivation of the Duet[™] and Quadrant[™] dual/multi band products, the antenna uses stripline fed slot radiator technology with patch circuits used to introduce multi band performance. Being slightly larger than the multi band Quadrant[™], the Quintet[™] has been configured to suit not only GSM900 and GSM1800 systems but also covers AMPS, DAMPS and CDMA 800, SMR systems, PCS1900, DCS1800 and UMTS/3G.

The incredible versatility of the ITG5001 is taken one step further with the ITG5000 version which is effectively two antennas in one. This antenna provides global cellular coverage and GPS satellite coverage making it an ideal telematics solution for vehicle

The GPS element is a small ceramic patch antenna with a high performance active amplifier and industry leading noise figure to ensure faster acquisition of multiple satellites. The Quintet[™] is equally appropriate for in-vehicle integrated telematics solutions or after market applications calling for both cellular and GPS installations in recreational or industrial vehicles.

Ship the Quintet[™] to any market in the world, and the antenna can be installed quickly, easily and yet deliver incredible performance. With a unique mix of vertical and horizontal polarization (as is also shown by the cell sites themselves), the antenna can be mounted at any angle and still deliver optimum performance.

Features:

- The ultimate telematics solution GPS and cellular in one antenna for almost any market worldwide. (ITG5000)
- Perfect solution for private vehicles, fleet management and vehicle OEMs etc
- Completely internal simple installation, no external parts



Note: Free space patterns shown

Australian Patent No. 764117, USA Patent No. 6346919, Germany Patent App No. 100 38 831.0, Israel Patent App No. 137716







Multi Band Cellular-GPS Combination

806-890 MHz, 890-960 MHz, 1710-1880 MHz, 1850-1990 MHz, 1910-2170 MHz 4

Electrical

Model Number	ITG5000 / ITG5001				
Gain <i>dBi</i>	1.1		4.4		4.5
Frequency MHz	806 - 890	890 - 960	1710 - 1880	1850 - 1990	1910 - 2170
Max Power W	10				
Tuned Bandwidth	Entire specified band @ <2.0:1 VSWR				
Tuning	Supplied pre-tuned				

Mechanical

Model Number	ITG5000 / ITG5001		
Housing Material	Black ABS/Polycarbonate alloy		
Dimensions	90 x 90 x 17mm		
Mounting	On glass inside vehicle. Pre-fitted with self adhesive foam tape.		
Cable and Connector	Cellular feeder of 5.0m 9014 low loss, fully shielded cable		
	terminated with SMA male and FME nipple (adapters available).		
	ITG5000 ONLY - GPS feeder of 5.0m RG174 type cable MCX connector fitted		

GPS

Frequency	1575.42 MHz		
Operation Temperature	-40 to +85°C		
Storage Temperature	-40 to +100°C		
System Gain at Fo	28dBi including cable and filter losses		
Impedance	50 Ohm		
Polarization	RHCP		
VSWR	1.5:1		
Noise Figure	<1.8 dB max.		
Power Input	+2.5Vdc to +12Vdc input, auto switching		
Power Consumption	11mA to 13mA (max)		
Power Input	Reverse polarity short circuit shutdown		
Over-Current	Thermal over-current shutdown >+150°C		

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