

# MassPRO™ MP6101

## GPS production test turnkey solution

### KEY FEATURES

- GPS production test turnkey solution
- Highly automatic testing procedure
- Built-in high-precision GPS simulator
- Support multiple DUT connectivity (typ. 4 DUT)
- Firmware upgrading possible for various GPS chipset support
- Optional BT MAC address programming
- PXI platform eases the combined test by adding various functions of PXI cards

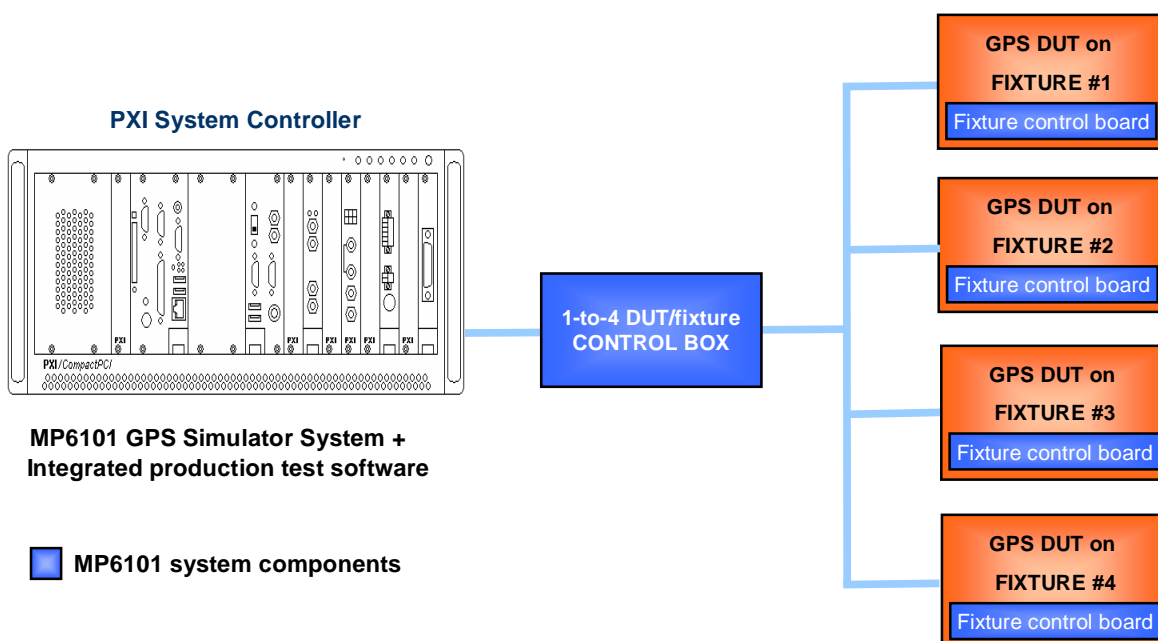
### OVERVIEW

The MP6101 is a highly automatic GPS production test turnkey solution. It equips a ultra-high-precision GPS simulator which provides a stable and accurate signal for GPS receivers testing. With the help of built-in test firmware, the MP6101 enables manufacturers to easily perform the product verification testing on the GPS PCBA.

In addition to test automation, the MP6101 also supports multiple DUT connectivity to further increase the production test efficiency. With the help of the integrated testing software, the users need only one click on the test button then the MP6101 will do all the corresponding testing item(s) specified, indicate the testing progress, display the result and log the report file automatically. Besides, BT MAC address programming feature can be optionally upgraded to help the customers who involve in BT+GPS related production.

With the high integration and automation, the MP6101 is very suitable for those customers who require a low cost and high performance production test solution.

### SETUP ARCHITECTURE



## SPECIFICATION

### Output Frequency

- L1 1575.42MHz

### Frequency accuracy

- +/- 0.01ppm

### Phase Modulation

- BPSK

### Channel

- Single channel 1 to 32 selectable

### NAV Data

- GPS C/A @1.023MHz with 50 bps fixed-pattern data

### Output RF Level (Nominal)

- -85 dBm to -135 dBm in 1 dB step

### RF control

- ON/OFF/CW

### RF connector

- SMA type

### Master Oscillator

- Frequency:  
10.23MHz
- Thermal stability:  
0.02ppm @ -30 ~ +70°C
- Aging:  
0.1ppm/yr (0.001ppm/day)
- Phase noise:  
-85dBc/Hz @1Hz  
-140dBc/Hz @100Hz  
-150dBc/Hz @10KHz
- Short-term stability:  
1.0E-011 @ 1 sec  
0.0E+000 @ 10 secs

### System Specification

- System  
OS: Microsoft® Windows® XP  
CPU: Celeron® / Pentium® M  
Chipset: Intel® 855GME + ICH4  
Input: 100-240VAC  
Size: 257.1x177x212.8mm (W x H x D)  
Weight: 5Kg
- Environment:  
Operating temperature: 0 ~ +50°C  
Storage temperature : -20 ~ +70°C



### System Design Center

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