BST16B65M8

16 Bit 65MSPS 8-channel analog-to-digital converter

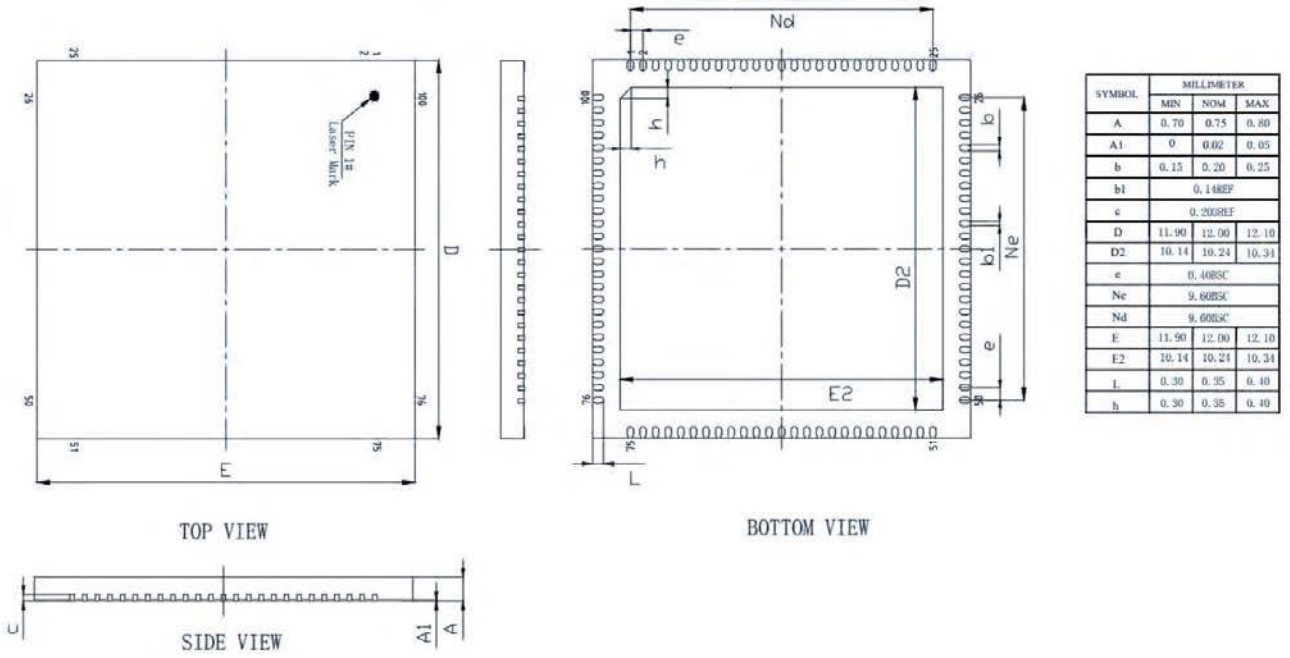
Features and uses

1. 1.8 V power supply.
2. Multi-stage, differential pipeline architecture.
3. Wide input bandwidth, high sampling rate and low power consumption in a small package.
4. Supports up to 1Gbps serial data output.
5. Standard SPI serial control interface, configurable functions.
6. Applicable to GNS anti-interference receivers, radars, communications, measurement and control, countermeasures, receivers, instruments, ultrasonic equipment and other fields.

Technical performance

1. Quality grade: GJB 7400 N1 grade.
2. Temperature range: -55°C~+125°C.
3. Power consumption per channel: 200mW@65MSPS.
4. Power supply: 1.8V.
5. Output interface: LVDS Serial.
6. Signal-to-Noise Ratio (SNR):
   78dBFS@Fin=9.7MHz(-1dBFS), 65MSPS.
7. Spurious Free Dynamic Range (SFDR):
   91dBc@Fin=9.7MHz(-1dBFS), 65MSPS.
8. Built-in 2, 4, 6, 8 integer input clock dividers.
9. Differential input range: 2Vpp.
10. Analog input range: 300MHz.
11. Serial port (SPI) control, user configurable functions .
12. Internal reference voltage source, supports power-down function.
13. Package: QFN100 (12mm x 12mm).

Shape and size



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.70	0.75	0.80
A1	0	0.02	0.05
b	0.13	0.20	0.25
b1	0.148EF		
c	0.203REF		
D	11.90	12.00	12.10
D2	10.14	10.24	10.34
e	0.40BSC		
Ne	9.60BSC		
Nd	9.60BSC		
E	11.90	12.00	12.10
E2	10.14	10.24	10.34
L	0.30	0.35	0.40
h	0.30	0.35	0.40

Block diagram