

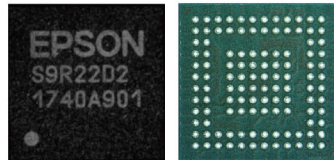
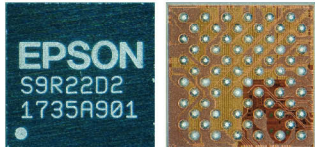
Epson GNSS IC

WLCSP : S9R22159

VFBGA : S9R22160

WLCSP

VFBGA



Key Features

1. Ultra Low Power

- Cooperative operation by Epson core technology (analog, digital, software).
- Low power consumption by combining with original TCXO.



- Optimizing driving duty by automatic environmental judgment.

2. High-Accuracy

- Supporting multi GNSS
- Reject multi-pass effect technology keep accuracy in the city

Industrial / Business

- Anti-theft (construction machinery, heavy machinery), Logistics.



Consumer

- Smart watch
- Watch system (children or elderly)



- General wearable devices



Visual Sensing Module
Developer Site

<https://ett-tw.biz/QBjBq>

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Epson core technology

1. Low Power Technology

- Epson original correlation system, low voltage operation, original TCXO.

2. Smart Duty Control Technology

- Automatic power control according to the reception environment.

3. Multipath Correction Technology

- Epson original code correlation system can make narrow peak.

Type		WLCSP	VFBGA
Package size		3.91 x 3.99 mm (w/o flash)	5.5 x 5.5mm (with flash)
GNSS Performance	Single Point Positioning	1.5m CEP	
	TTF	Hot Start <1sec Cold Start Average <35sec	
	Channel	32ch	
Electrical and Environment Feature	Supply Voltage	0.9V,1.1V,1.8-3.3V	
	Power Consumption	GPS and QZSS 2.2mW Multi-GNSS 5.0mW	
	Operating Temperature	-20deg ~ +85deg (-40deg is optional)	
Interface	Serial Ports	UART/I2C/SPI	
	Digital I/O	PPS/GPIO/External Interrupt	
Others	Data Updating rate	Max 20Hz	
	Storage	Built-in 2Mbit Flash ROM	
	CPU	Cadence LX6 (x2)	