

RUGON

Real-time Ubiquitous Ground-Shaking Observation Network



WHAT IS RUGON?



RUGON stands for **Real-time Ubiquitous Ground shaking Observation Network**, and the pronunciation in Thai is “**รู้ก่อน**”

RUGON is an acceleration sensor tightly integrated with an onboard processor and a communication module. It works as a standalone device or it is nested with other RUGON units to measure ground and structural vibration. RUGON Co.,Ltd. is establishing an infrastructure of approximately 100 sensors deployed across Thailand to detect earthquakes and provide earthquake early warning.

SENSE THEN SHARE

“Sense then Share” reflects RUGON's design concept. The hardware and firmware are designed to sense and process data, and then transmit it to the cloud server as soon as possible.

Then users will be alerted.

FEATURES



Earthquake Early Warning



Live ShakeMap



Structural Assessment



Auto Alarm & Shutdown



Ultra-Low Noise Sensor



NIMT Calibrated



4G IoT Data
(9 Years)



Wi-Fi Configuration



Mobile Ready

TECHNICAL SPECIFICATIONS

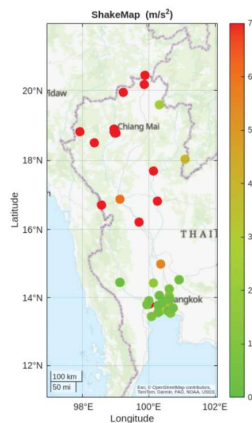
Model	Standard	Pro
Automation/Trigger	No	Yes with 2-channel logic switch
Position detection	No	Yes with onboard GPS module
Vibration detection	3-axes accelerometer with ultra-low noise density (all axes): 20 $\mu\text{g}/\sqrt{\text{Hz}}$	
Cellular	4G IoT Data (9 years)	
Wi-Fi	WLAN 2.4 GHz Tx/Rx 2400-2500 100 mW (e.i.r.p.) WLAN 5.1 GHz Tx/Rx 5150-5350 200 mW (e.i.r.p.) & 5.8 GHz Tx/Rx 5725-5850 1 W (e.i.r.p.)	
Processor	Quad Core 64-bit	
OS storage	eMMC	
Time Synchronization	Network Time Protocol	
Notification	iOS and Android APP	
Data storage	Cloud-based	
Operating Temperature	0 – 50 °C	
Power	USB Type-C 5V 3A	
Dimension	50mm x 50mm x 110mm	
Weight	300 g	

ALERT AND REPORT

Notifications



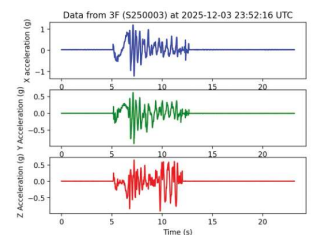
ShakeMap



Assessment



Waveform Data



CONTACT



Professor Anat Ruangrassamee, Ph.D.

Professor, Department of Civil Engineering,
Chulalongkorn University

Managing Director, RUGON Company Limited



rugon.alert@gmail.com



089-103-3993

