



SYNERTONE 1 SATELLITE

Synertone Communication Corporation

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Synertone's Mission

- Synertone's mission is to provide broadband services anywhere, anytime. Synertone is the sole provider of close to 20Gbps of satellite communication bandwidth across the regions of mainland China, Hong Kong and Macau. Synertone infrastructure can provide more than 150Mbps high-speed wireless broadband connectivity to high-speed train, aircraft, ferry, tourist bus, truck, etc. The bandwidth can also be used to provide wireless broadband connectivity for remote areas where even without electricity; and emergency services.

Synertone is dedicated to create a better information network, build excellent telecommunication products through the construction of a high-quality and efficient mobile Internet ecosystem. The Group is committed to provide its customers the best possible satellite communication products and satellite broadband services.

Synertone Communication Corporation is a Hong Kong listed company (Stock code: Hk1613).

Synertone's Core Business

- Provide satellite broadband services through "Synertone 1" satellite; operate satellite networks; and provide total customized satellite broadband solutions.
- Focus on research, development, and manufacturing of mobile satellite communication systems, and integrated satellite broadband solutions.



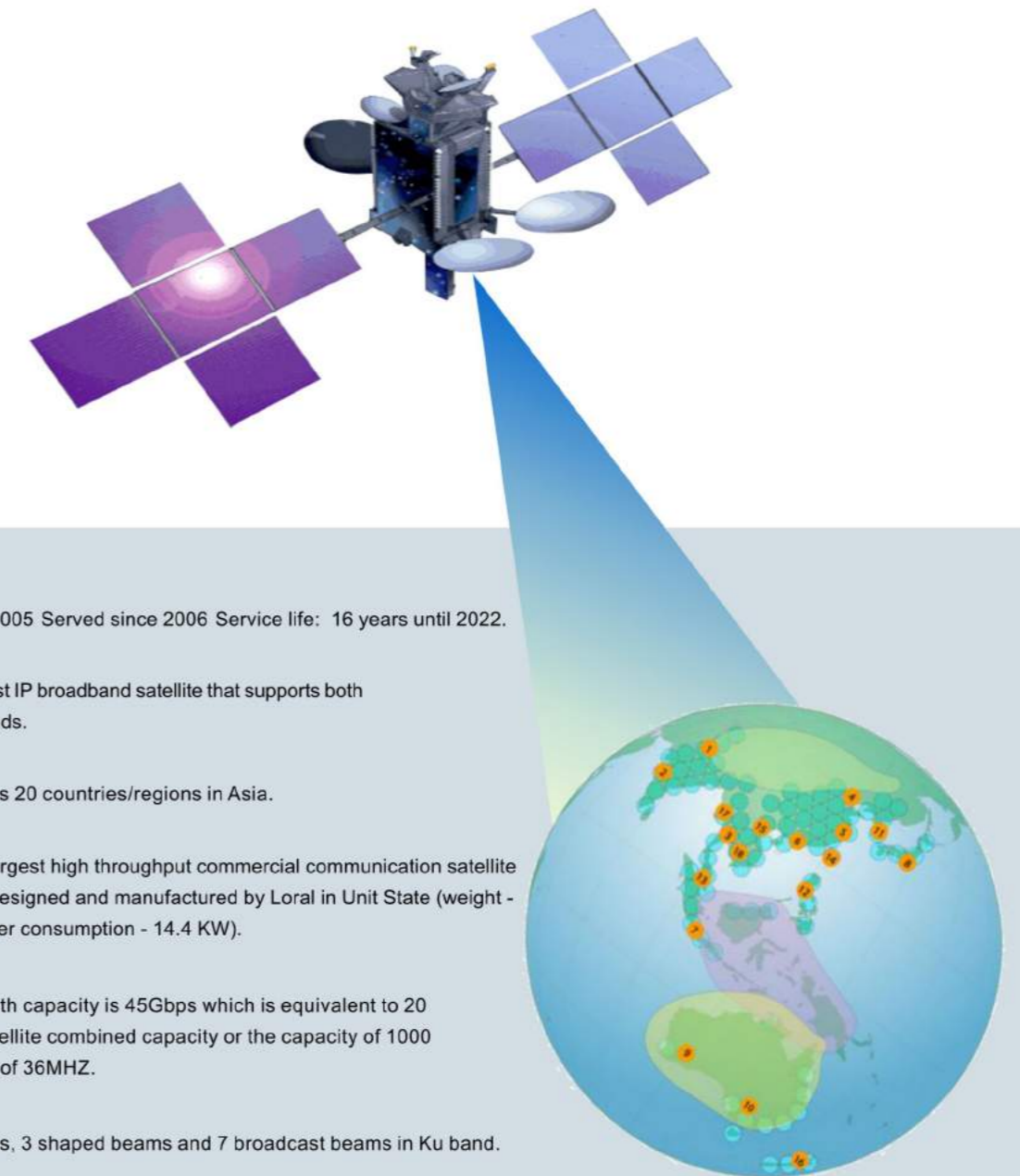
Synertone's Customers

- Synertone is the industry leader. Meeting its customers' needs is its top priority. Its customers' current and future requirements help to drive its ongoing research and product development directions. Through its forward-looking mindset and constant pursuit of technology innovations, Synertone helps its customers to build, and manage reliable communication networks anywhere, anytime. In keeping with its role as a trusted partner, Synertone's customers include government, industrial and commercial businesses and organizations. Synertone provides high-quality satellite broadband services through licensed telecommunication partners in mainland China, and directly to customers in Hong Kong, Macau and overseas.

Synertone 1

Overview

- Synertone acquired IPSTAR for coverage in China (Hong Kong, Macau included) in 2013, and renamed it as Synertone 1.
- With advanced technologies, Synertone 1 offers HTS services which represent the future satellite communication trend.



- Launched in 2005 Served since 2006 Service life: 16 years until 2022.
- The world's first IP broadband satellite that supports both Ku and Ka bands.
- Service covers 20 countries/regions in Asia.
- The second largest high throughput commercial communication satellite in the world, designed and manufactured by Loral in Unit State (weight - 6,505Kg; power consumption - 14.4 KW).
- Total bandwidth capacity is 45Gbps which is equivalent to 20 traditional satellite combined capacity or the capacity of 1000 transponders of 36MHZ.
- 84 spot Beams, 3 shaped beams and 7 broadcast beams in Ku band.
- Over 10 millions internet and voice user capacity.

Service Footprint in China

- Orbital Slot : 119.5° E.
- Capacity : about 20Gbps.
- 22 Ku-band spot beams (two way) cover Middle East of China.
- 2 augmented beams (two way).
- 1 shaped beam (two-way) covers Western China.
- 1 Ku-band broadcast beam (one-way), covers Middle East of China.
- 3 gateways : Beijing, Shanghai, Guangzhou.
- Ka-band for gateways, Ku-band for terminals.



Features Comparison: Synertone 1 vs. Other Ku-band Satellites

Features	Synertone 1	Other Ku-band Satellites
EIRP(dBW)	Spot Beams: 59.5 Shaped Beams: 54.2	Maximum: 55.8 Northwest of China : 48
G/T(dB/k)	Spot Beams: 19 Shaped Beams: 8	Maximum: 9 Northwest of China:-2.0-2.0
FDM	Yes	No
Construction Costs of Gateway	No	Yes
Bandwidth Leasing Costs	Low	High
Equipment Costs	Low	High
Configuration Requires	Low requirements of antennas size and amplifier	High requirements of antennas size and amplifier



Market Applications



Security



Emergency & Rescue



Aviation



Railway



Shipping



Energy & Water Conservancy



Gas & Oil



Remote Education & Healthcare



Live Streaming



Internet



Outdoor Activities



UAV

Synertone 1



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