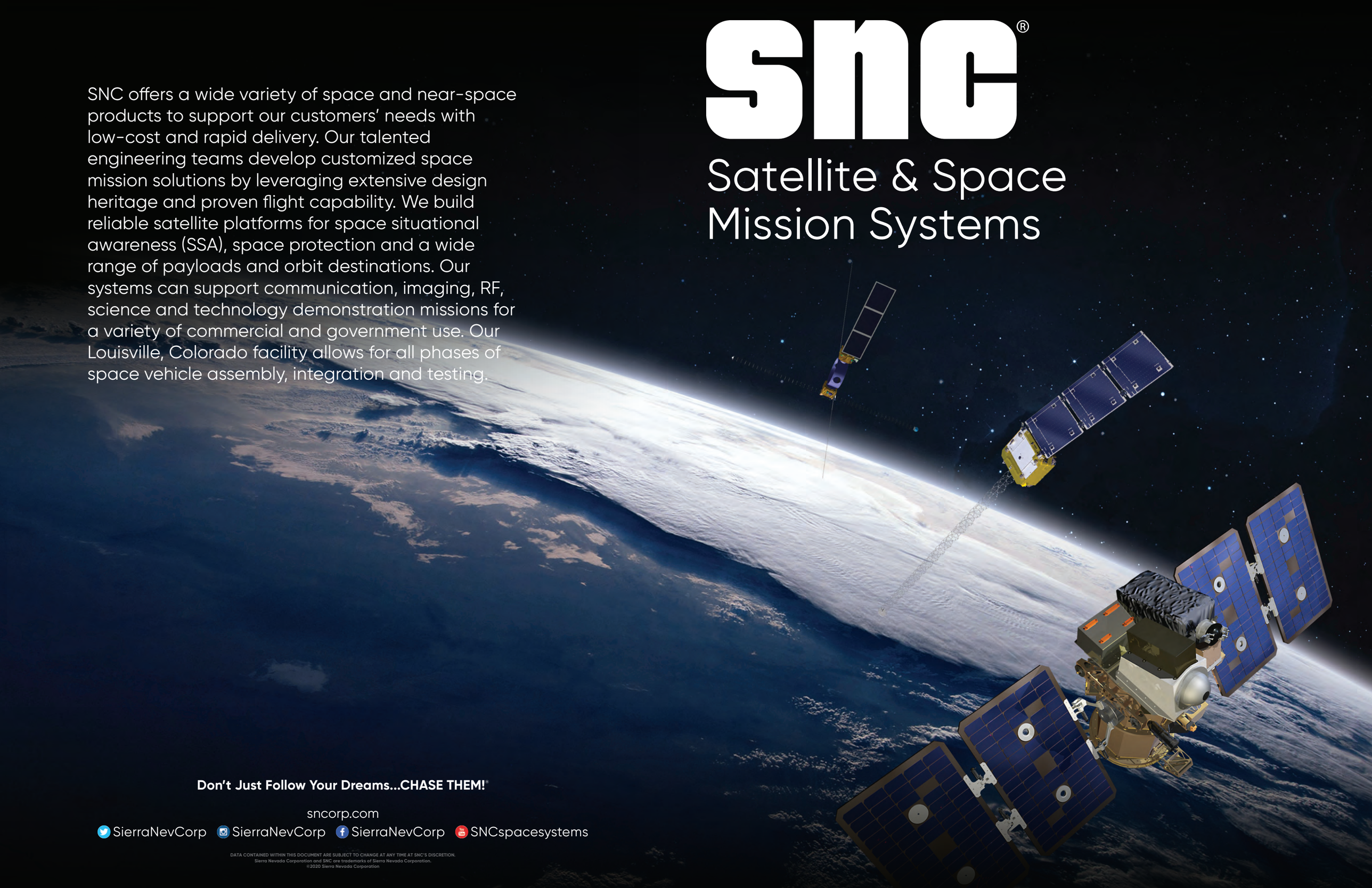
SNC®

Satellite & Space Mission Systems

SNC offers a wide variety of space and near-space products to support our customers' needs with low-cost and rapid delivery. Our talented engineering teams develop customized space mission solutions by leveraging extensive design heritage and proven flight capability. We build reliable satellite platforms for space situational awareness (SSA), space protection and a wide range of payloads and orbit destinations. Our systems can support communication, imaging, RF, science and technology demonstration missions for a variety of commercial and government use. Our Louisville, Colorado facility allows for all phases of space vehicle assembly, integration and testing.



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LEO Capabilities				
SNC Baseline Bus	**SN-30L**	**SN-50L**	**SN-100L**	**SN-200L**
Dry Bus Mass (kg)	50	80	115	200
Payload Mass (kg)	20	50	100	150
Payload External Envelope (cm) (W x L x H)*	27x27x9.7	46x49x25.4	69x97x71	69x97x71
Payload Power (W OAP)	40	150	350	500
Pointing Accuracy (deg, 1σ)	0.02	0.02	0.01	0.01
Delta V (m/s)	270	125	175	180
On-Orbit Life (years)	1-3	3	5	5+
Configuration Context	½ Std. ESPA	Std. ESPA	ESPA Grande	ESPA Grande/ Dedicated Launch

*Additional internal volume may be available

GEO Capabilities				
SNC Baseline Bus	**SN-30G**	**SN-50G**	**SN-200G**	**SN-1000G**
Dry Bus Mass (kg)	50	120	220	900**
Payload Mass (kg)	20	40	150	1,086 (181/port)
Payload External Envelope (cm) (W x L x H)	27x27x9.7*	46x49x25.4*	69x97x71*	Six Std. ESPA Hosted or Deployed Payloads
Payload Power (W OAP)	40	130	400	800
Pointing Accuracy (deg, 1σ)	0.02	0.02	0.01	0.01
Delta V (m/s)	140	340	170	450
On-Orbit Life (years)	1-3	1-3	5+	1-3
Configuration Context	½ Std. ESPA	Std. ESPA	ESPA Grande	Free-Flying ESPA

*Additional internal volume may be available
**Includes ESPA Ring

Heritage

SNC has a long history of successful, flight-proven spacecraft as the prime contractor/integrator on multiple programs.

ORBCOMM

SNC manufactured 18 satellites for the ORBCOMM Generation 2 (OG2) constellation. The first (prototype) launched in 2012, with six more satellites successfully launched in 2014 and the remaining 11 launched in 2015. Our OG2 program, based on our SN-100 bus, allowed for 50 percent fewer satellites to carry 12x more machine-to-machine capacity than the first generation, and also added automatic identification system (AIS) services.

STPSat-5

SNC built and delivered the STPSat-5 spacecraft that launched on December 3, 2018 for the Space Test Program office at the U.S. Air Force's Space and Missile Systems Center (SMC). This mission utilized SNC's SN-50 Microsat spacecraft, a low-cost, 50 kg class, multiple-payload hosting platform.

DSX & TacSat-2

The SN-200 bus was flight-proven on the U.S. Air Force Research Laboratory's (AFRL) successful TacSat-2 program and was also the basis for AFRL's Demonstration and Science Experiment (DSX) which launched in 2019. Demonstrating the flexibility of the SN-200 design, this bus was used for both TacSat-2 as a three-axis, stabilized free-flyer in low-Earth orbit. For DSX it acted as an Evolved Launch Vehicle (EELV) Secondary Payload Adapter (ESPA) ring mounted bus and science package destined for medium-Earth orbit.