

Space Capabilities

Unless otherwise noted, information comes from the footnoted source.¹ Note that none of the following accounts for cyber anti-space capabilities, or ASATs via non-purpose ground based missiles like the SM-3.

<i>United States</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	Significant	Some	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	Some	–	–	None
MEO/GEO Co-Orbital	Some	–	–	None
Directed Energy	Significant	Some	–	None
Electronic Warfare	Significant	Significant	Significant	Significant
SSA (Best in the World)	Significant	Significant	Significant	Significant

Further Capabilities:

- Globally deployed uplink jamming for GEO communication satellites
- Local GNSS denial/spoof for civilian GNSS
- Likely ability for GNSS degrade/denial of military targets
- Can likely dazzle, possibly blind satellites
- SM-3's + GBMD can target LEO satellites

<i>Australia</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	Some	–	–	None
Electronic Warfare	?	–	–	None
SSA	Some	Some	Some	?

<i>United Kingdom</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	–	–	–	None
Electronic Warfare	?	–	–	?
SSA	Some	Some	Some	?

<i>France</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	Some	?	?	None
Electronic Warfare	Some	?	?	?
SSA	Some	Some	Some	?

<i>Japan</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None

¹ Global Counterspace Capabilities: An Open Source Assessment https://swfound.org/media/207350/swf_global_counterspace_capabilities_2022_rev2.pdf (2022)

MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	?	–	–	None
Electronic Warfare	?	–	–	–
SSA	Some	Some	Some	–

Further Capabilities:

- SM-3's can target LEO satellites

<i>South Korea</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	?	–	–	None
Electronic Warfare	?	–	–	–
SSA	Some	–	–	?

<i>India In Support</i>	R&D	Testing	Operation	Used in Conflict?
Electronic Warfare	?	?	?	?
SSA	Some	Some	?	?

<i>China</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	Significant	Significant	Significant	None
MEO/GEO Direct Ascent	Some	Some	–	None
LEO Co-Orbital	Some	?	–	None
MEO/GEO Co-Orbital	Some	–	–	None
Directed Energy	Significant	Some	–	None
Electronic Warfare	Significant	Significant	Significant	?
SSA	Significant	Significant	Significant	?

Further Capabilities:

- Likely strong EW for GNSS and satellite communications
- Limited SSA capabilities not based in mainland China, especially during wartime.
- China and Russia's GPS back each other up²

<i>North Korea</i>	R&D	Testing	Operation	Used in Conflict?
LEO Direct Ascent	–	–	–	None
MEO/GEO Direct Ascent	–	–	–	None
LEO Co-Orbital	–	–	–	None
MEO/GEO Co-Orbital	–	–	–	None
Directed Energy	–	–	–	None
Electronic Warfare	Significant	Some	Some	?
SSA	?	?	?	–

<i>Russia In Support</i>	R&D	Testing	Operation	Used in Conflict?
Electronic Warfare	Significant	Significant	Significant	?
SSA (2 nd Best in World)	Significant	Significant	Significant	Significant

² <https://www.airforcemag.com/space-force-can-only-mitigate-china-russia-space-cooperation/> (May 2022)