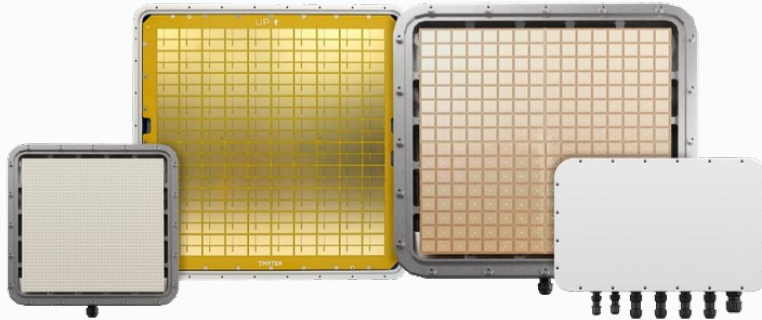


TMYTEK XRifle Dynamic RIS – 3G5 / 4G7 / 28G

Reconfigurable Intelligent Surface · 3.35–30 GHz · FR1 & FR2 · Product Datasheet



MODEL COMPARISON

Parameter	XRifle RIS 3G5	XRifle RIS 4G7	XRifle RIS 28G
Order No.	XR-RIS-3G5-G	XR-RIS-4G7-G	XR-RIS-28G-G
Frequency band	3.35–3.6 GHz (TBC)	4.2–5.2 GHz	26–30 GHz
Band	Sub-6 GHz (FR1)	Sub-6 GHz (FR1)	mmWave (FR2)
Polarization	Linear	Linear	Linear
Antenna arrays	10x10	16x16	32x32
Array dimensions	428x431 mm (TBC)	428x431 mm	169x171 mm
Incidence / Reflection	±60°	±60°	±60°
RCS Gain @0°	35–38 dB	44.6–46.7 dB	48.2–56.2 dB
3 dB Beamwidth @0°	10–18°	5.2–13.2°	3.6–6.6°
Min. distance to Tx	>90 cm (TBC)	>90 cm	>51 cm
Power (RIS)	<5 W	5 W	19 W
RIS dimensions	510x510x57 mm (TBC)	510x510x57 mm	267x267x57 mm
RIS weight	6.9 kg (TBC)	6.9 kg	2 kg

CONTROLLER & COMMON SPECS

Controller (all models)	Common features
<ul style="list-style-type: none"> • Control interface 10/100 Mbps Ethernet • Supply voltage 12 Vdc • Controller power 11 W (3G5 / 4G7), 25 W (28G) • Dimensions 345x215x55 mm • Weight 2 kg • VESA mount 100x100 mm • Modules per controller up to 4 	<ul style="list-style-type: none"> • 3D angle range ±60° incidence & reflection • Operation Bi-directional • Signal Modulation- & protocol-agnostic • Software TMXLAB Kit (GUI + API), Adaptive Beam Steering • Scaling up to 64x64 (4x 32x32) • Heterogeneous combo 3.5 / 4.7 / 28 GHz simultaneously (FR1 + FR2) • Mounting VESA 100x100 mm

APPLICATIONS

Sub-6 GHz Coverage Expanding FR1 network coverage in underserved areas	5G NR mmWave Coverage Improving signal quality in weak FR2 (28 GHz) areas	NLOS Coverage Reaching obstructed zones and blind spots
5G/6G Research R&D, field trials and prototyping of FR1/FR2 networks	OTA Test Long-distance OTA evaluation (e.g. Anritsu ME786xA)	6G ISAC Integrated Sensing and Communication (28G + mmW-OAI)