400 W Ku-Band Block Upconverter

This GaN block upconverter translates a 950–1700 MHz IF input to a 13750–14500 MHz Ku-band RF output for satellite ground station transmit chains. Saturated RF output is 400 W.

The module uses forced-air cooling and supports monitoring and control through Ethernet and RS485.

RF output

Parameter	Value	Unit
RF output frequency	13750–14500	MHz
Saturated RF output power	400	W

IF input and reference

Parameter	Value	Unit
IF input frequency	950–1700	MHz
Local oscillator frequency	12800	MHz
External reference frequency	10	MHz

Control interfaces

Parameter	Value
Monitoring and control	Ethernet, RS485

Mechanical specifications

Parameter	Value	Unit
Enclosure dimensions	350 × 230 × 200	mm
Cooling method	Forced air	-

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.