

HIGH POWER GAN FRONT END MODULES

The compact size of GAN devices allows the integration of high power devices in small front end modules.

HIGH POWER FRONT END MODULES FOR 5G SYSTEMS

In a single standard size package, LPA Concepts offers 1T1R front end modules in bands 40, 41, 42 and 43 with Tx peak power up to 250W.



Band 42 TDD front end module with 250Wpeak Tx power

Module mounting holes are located very close to the power device to achieve a very good thermal conduction to the dissipation elements

TxRx SWITCHING

A single 0-3.3V analog command line switches the module between the Tx and Rx modes. The complete switching cycle is less than 5 μ s.

POWER SUPPLY / PROTECTIONS

The Tx high power GAN devices are supplied with +48V. An external bias source of -8V is necessary, however there is no special precaution in bias sequencing. An overcurrent limitation on the +48V supply is implemented inside the module preventing damage in case of overdrive.

The Rx amplifier is supplied with an external +5.5V that is internally regulated to +5V.

RADIO BOARD AND ANTENNA CONNECTIONS

Connections to the radio board are made with compression connectors thus eliminating cables.

Connections to the antenna filters are either made with MCX connectors and cables or with cable less PSMP blind mate connectors

Contact factory for more information.