

INTRODUCTION

The LR5440 are an outdoor remote radio unit. It is the radio frequency (RF) part of a distributed base station and can be located near antennas.

Adopting an innovative design, LR5440 are able to work in 4 TX and 4 RX mode and therefore supports higher output power and larger carrier capacity.



Electrical Data

Frequency Band	N77/N78/N79
Supported Air Standard	NR
Occupied bandwidth	NR:100MHz
RF Output Power	4X40W
Power supply	-48V DC(-36V~-57V)
Quantity of SFP	2
Data rate of Front	10Gbps
Noise Figure	2.8dB (room temperature) 3.5dB (over temperature)
Receiver Sensitivity	no worse than -96.0 dBm at room temperature for G-FR1-A1-5
3GPP Compliant	TS38.104,TS38.141

Interface information

LED indicators	6 x status LED RUN/ALM/ACT/VSWR/OP1/OP2
Extended optical port	2 x SFP+, 10Gbps, CPRI or eCPRI protocol (optional)
Local management port	1 x RJ45

Power supply	-48V DC(-36V~57V)
RF Antenna port	4T4R 4x4.3-10 female connectors
AISG port	Electrical adjustment interface for antenna tilt angle

Environmental Data

Ingress Protection (IP) rating	IP65
Operating temperature	-40°C to +55°C
Storage temperature	-40°C to +85°C
Relative humidity	5% RH to 95% RH
Atmospheric pressure	70 kPa to 106 kPa, -400m~3000m
Shockproof protection	NEBS GR63 zone4
Lightning Protection	±20 KA, 8/20us
MTBF	≥ 150000 hours
MTTR	≤ 1 hours
Cooling method	Natural cooling
Installation method	Wall hanging or pole holding

Mechanical Data

Size	400x330x100(mm)
Volume	<13.2L
Weight	<15Kg

Series Model List

PartNumber	Description	Frequency
LR5440-77D165	RRU N77 46dBm 5G 4T4R DC	UL / DL: 3800-4200MHz
LR5440-78D165-H010S010	RRU N78 46dBm 5G 4T4R DC	UL / DL: 3300-3700MHz
LR5440-78D165-H011S010	RRU N78 46dBm 5G 4T4R DC	UL / DL: 3400-3800MHz
LR5440-79D165	RRU N79 46dBm 5G 4T4R DC	UL / DL: 4700-5000MHz

* Planned in the R&D roadmap