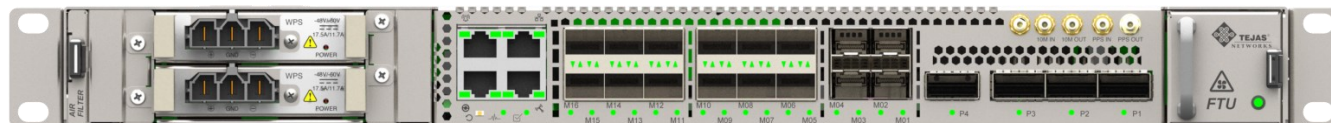


# TJ1400-NR BBU

## 4G LTE and 5G NR Support



### DATA SHEET



### Product Highlights

- Compact 1RU Platform
- 3GPP and O-RAN Compliant BBU
- Scales upto 15 4G/5G Cells
- Configurable bandwidth up to 100MHz
- Redundant Power Supply, FAN, & Controller
- Supports Combined DU/ CU
- Supports CPRI & eCPRI Interfaces
- Adaptable to a range of MIMO configurations, from 32T32R to 64T64R

### Overview

- The TJ1400-NR BBU ensures seamless integration with 4G LTE and 5G NR technologies
- Offers flexible and affordable scaling options for any deployment, from rural to urban settings
- Small footprint & low power consumption
- Supports Phase & Frequency synchronization requirements
- Designed for 5G Standalone and Non-Standalone

### Key Benefits

The TJ1400-NR BBU, compatible with 4G LTE and 5G NR, enables both 5G SA and NSA deployments. It supports a range of MIMO configurations, including 32T32R and 64T64R Massive MIMO, and can scale upto 15 cells with 4G and 5G radio units via eCPRI/CPRI.

This baseband conforms to 3GPP and O-RAN, offering a cohesive DU/CU architecture and an integrated software-defined unit encompassing PHY, MAC, RLC, PDCP, and RRC layers for both eNodeB and gNodeB for all cell types.

The BBU is compatible with FDD and TDD duplex modes, and operates across various frequency bands in both Low and Mid ranges. Designed for versatility, the BBU adapts to both 4G LTE and 5G NR bands.

With its compact build and ease of installation, the BBU is ideal for enhancing network capacity and coverage, ensuring smooth 4G and 5G service implementation through tower/mast infrastructure.

Key Specifications	
Technology Support	4G LTE, 5G NR and NB-IoT support
Shelf form factor	19" Rack mountable with 1U height
Fronthaul Ports	12 Ports (10Gb/25Gb), combination of CPRI and eCPRI & 3 Ports of 100Gb with eCPRI support
Backhaul Ports	2 Ports (10Gb/25Gb)
Capacity	
5G Mode Support	4G LTE, 5G NR and NB-IoT support
Duplex support	19" Rack mountable with 1U height
Number of Cells supported	15 no
MIMO Support	2T2R, 4T4R, 8T8R, including Massive MIMO 32T32R, 64T64R
Frequency band agnostic operation	Support 3GPP frequency bands (in 4G and 5G) operation in Low/Mid Bands
Channel BW (MHz)	Upto 100MHz (as per 3GPP)
Environmental	
Power Type	–48V DC, with redundant power inputs
Operating Temperature	0°C to +55°C
Compliances	
3GPP	Release 15 compliant, software upgradable to Release 17
ORAN	ORAN Option 7-2x, complaint to v04.00, software upgradable to later releases

*\*upcoming release specifications subject to change without notice*