

Product Excellence

Features and Benefits

- Integrated Baseband and Radio
- Integrated Crest Factor Reduction(CFR)
- Integrated alarm and fault management including forward power, VSWR, and operating status.

Macro iDU (Integrated Digital Unit)

All-in-One Radio Solution

Tecore Networks Macro iDU is a unique offering that provides Baseband and Radio technology in a single form factor chassis that supports 2x2 MIMO and provides 20W RF output power per port. The Macro iDU supports wireless technologies spanning 2G, 3G, 4G, 5G and integrates seamlessly with any core network. This integration provides a complete network solution for commercial, government, military, and emergency response applications.

Tecore's Macro iDU addresses these requirements by providing scalable bandwidth options, enhanced modulation techniques, and MIMO, allowing for more energy per bit and more bits per hertz. These enhanced techniques translate into better quality of service, higher bit rates for packet data-intensive applications, an evolution path for existing 2G and 3G networks as well as Greenfield 4G LTE/5G network deployments.



MACRO IDU SPECIFICATIONS

Features	
MIMO	2 x 2
Antenna connector port	2 x 4.3/10
Operating frequency	380 MHz to 4400 MHz
Max. No. of carriers per TX/RX	1 or 2
ORI Interfaces	2 CPRI to add 2 RRHs for 3-sector configuration
OAM	Via CPRI or 10GbE
Bandwidth supported	1.4, 3, 5, 10, 15, 20 MHz
3GPP compliance	Up to 3GPP Release 14
Duplex method	FDD/TDD
Voltage	DC 27V or -48V
Operating temperature	-40 F to +131 F -40 C to +55 C* (*with sun cover)
Management interface	Local Gigabit Ethernet
Rx Input Level	+35dBm Maximum
LTE sensitivity (5,10, 20 MHz)	< -103dBm Typ.
Enhanced Capabilities	<ul style="list-style-type: none"> Digital Pre-Distortion (DPD) Crest Factor Reduction (CFR) Alarm and Fault Management- Including forward power, VSWR and operating status GPS Receive

Specifications	
RF output power	20W per port
Dimension	16.9 x 7.9 x 8 in 43 x 20 x 20 cm
Power consumption (Typical)	< 400 watts
Weight	40.7 lbs / 18.5 kg
Active Users	Scalable up to 1,000 SAU per baseband unit
Downlink Peak L1 Throughput	200 Mbps with 2x2 MiMO in 20 MHz bandwidth
Uplink Peak L1 Throughput	75 Mbps with 2x2 MIMO in 20 MHz bandwidth
Carrier Aggregation	Supported

Regulatory	
LTE Compliance	ETSI TS 136 104 Up to Release 14 Wide Range BS Cat.
Electrical Safety	CSA C22.2 No 60950
Environmental Conditions	ETSI EN 300 019-1 Class 1.2 ETSI EN 300 019-2 Class 2.3 ETSI EN 300 019-4 Class 4.1 IP67
Flammability	UL94

Tecore Networks is a supplier of 2G, 3G, 4G and 5G wireless network infrastructure. Tecore is a trusted provider to the commercial, government and military markets with an established track record of performance and evolution driven by its innovative software defined approach. Since 1991, Tecore has been committed to providing innovative, reliable and scalable wireless infrastructure solutions. Tecore's solutions include core as well as radio access network infrastructure, supported by state-of-the-art professional services.



To learn more about our technology, products, and services, call us at [+1.410.872.6500](tel:+14108726500) or visit us at www.tecore.com ©Tecore Inc.

*Features and prices are subject to change

