

RADIO 4415

The macro Radio 4415 is a 4T/4R radio with 4x40W output power. As part of the Ericsson Radio System portfolio Radio 4415 has best in class design when it comes to radio performance and power efficiency for wide area 3GPP radio products.

Radio 4415 has by use of its small and smart dimensions support for a wide range of mounting scenarios and provides a pioneering flexibility within its product segment with the One-bolt Installation. With Radio 4415 Ericsson evolves the macro radio part of the portfolio to become even more flexible and making it easier than ever to make small and efficient single and multi-band macro radio installations.

The Radio 4415 should preferably be located near the antenna and can be located up to 40 km from the baseband unit. A fiber optic cable can be used to connect the Radio 4415 to the baseband unit and several radio units can be connected in a cascade or star configuration.

Radio 4415 provides support for AISG TMA and RET towards the antenna system. GSM, WCDMA and LTE is supported with up to 8 carriers on both GSM and WCDMA as well as up to 75/100 MHz

FD-FDD/LTE FDD and TDD-LTE (40/80 MHz) branches provide in-built support for MIMO, antenna calibration and TX/RX diversity.



Optional installation equipment for wall and pole mount is available. To support AC installations there will be optional Power Supply Units (PSU). Optional external monitor ports for selected bands provide measurements of the output power.



Technical Specification Radio 4415

FREQUENCY BANDS

Bands: 3GPP FDD/TDD bands

HW CAPACITY

Carrier capacity GSM: Up to 8 carriers in MSR
 Carrier capacity WCDMA: Up to 8 carriers
 Carrier capacity LTE FDD/TDD: Up to 75/100 MHz
 IBW FDD/TDD: Up to 75/100 MHz
 20 MHz for GSM and LTE 1.4/3 MHz carrier
 MIMO: Yes, 4T4R
 Output power: Up to 4 x 40 W

INTERFACE SPECIFICATIONS

Antenna ports: 4 x 4.3-10 (f)
 Antenna calibration: SMA (f)
 External Antenna Line Device: RET 2.0, using DIN 8 or over the antenna port. AISG TMA & RET support
 CPRI: 2 x 2.5/5/10 Gbps (exchangeable SFP modules)
 Optical indicators: 5
 Maintenance button: 1
 External alarms: 2 (using DIN 14) or optional fan unit
 Field ground: Dual lug

MECHANICAL SPECIFICATIONS

Weight: 20 kg
 Volume: 17 liter
 Mounting: Rail, wall and pole mount
 Fans needed when mounted in non-vertical direction

ELECTRICAL SPECIFICATIONS

Power Supply: -48 VDC (3-wire)

ENVIRONMENTAL SPECIFICATIONS

Normal operating temp.: -40 °C to +55 °C (cold start at -40 °C)
 Environment: Outdoor class with IP65