A Corning **MobileAccess Solutions Product**

features and benefits |

Future ready

- All standard BTS/BDA cellular services are supported
- Per RIU-4, up to four services in any combination
- · RIU combining option of up to two RIU-4 units

control via configurable **AGC**

Automatic signal • Remote setup, adjustments and monitoring through SC-450 controller connections

Advanced management and control

- · Allows monitoring of receive and transmit signals from the operator's BTS/BDA equipment
- · Programmable noise level reduction parameter
- · Intuitive Web graphical user interface GUI

Flexible interfaces

- · BTS/BDA modules can be installed in any order
- Simplex and duplex interface to **BDA/BTS**
- Supports up to four (4-port) base units (BU) or 8 (4-port) BUs using an expansion kit

Simple setup

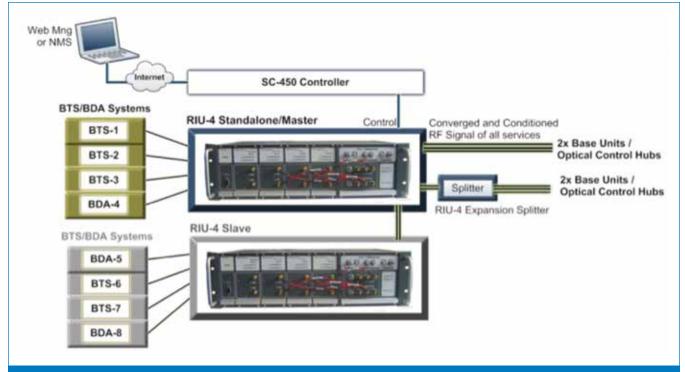
RIU-4 is fully compatible with the current RIU-IM unit. Commissioning process is identical in all RIU models The Quad-Band Radio Interface Unit (RIU-4) provides a scalable, cost-effective solution for adjusting the RF signal source from a number of host base-transceiver stations (BTS) or bi-directional amplifiers (BDA) and feeding the conditioned RF signals to Corning MobileAccess DAS coverage systems.

The RIU-4's scalable design is ideal for large deployments and can easily expand to support operator's long-term needs. Each RIU-4 unit can support up to four cellular services in a stand-alone mode, whereas additional different services/bands (up to six) can be supported when two units are connected in a master/slave configuration. Each unit supports up to four 4-port base units (or two 8-port base units), whereas additional base units (up to four 4-port or two 8-port base units) can be supported when utilizing the expansion Kit.

Remote control and monitoring is provided through a system controller (SC-450) connection, and enables adjusting the RF input power level from the BTS or BDA to the system and configuring the automatic gain control (AGC) function to ensure a constant level of RF input to the system. Controlling uplink RF signal is facilitated as well to provide UL noise level reduction when necessary.



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Example of RIU-4 Master and Slave Installation Supporting more than Four Services Delivered to the Same Base Units

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specifications |

| RF In | From BTS (to BTSC): | 10 to 36 dBm (0 to 40 dBm for 700 MHz LTE | |
|-----------------------------|---|---|--------------------------------------|
| | From BDA (to BDAC): | model) -16 to 10 dBm | |
| Power | DC Input: Power Consumption: | 20 to 48 VDC Per BTSC/BDAC unit: 6 W; Total: < 30 W | |
| LEDs | BTSC/BDAC Module: | Run DL Overload | Operation status High DL output |
| | System Level | DL Low Signal Power | Low DL output Power input indication |
| Physical Characteristics | Dimensions cm (in): Weight (four modules): | 48.4 x 3U x 30 (19 x 3U x 11.8) 10 kg (22.5 lbs) | |
| RF Connector Types | Front Panel: Interfaces to (up to) four conditioners Interface to second RIU-4 unit (Master/Slave support) | (eight) QMA connectors (six) QMA connectors | |
| | Rear Panel: Interface to BTS/BDA Interface to Base Units | (three) N-Type connectors on each conditioner (eight) QMA connectors for base units (BUs) (two) QMA connectors for BU expansion kit | |
| Environmental | | | |
| Specifications | Temperature: Operating Storage Humidity: | 0° to +50° C (32 to 122° F) -20° to +85° C (-4 to 185° F) 10 to 95 percent, non-condensing | |
| Standards and | | | |
| Approvals | USA: NRTL: Europe: EU Safety: | FCC 47 CFR part 15B UL 60950-1 EN 301489 EN 60950-1 | |



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ordering information |

| RIU-4 Accessory Kits | | |
|------------------------|---|--|
| AK-RIU4-COMBINE | RIU-4 Combining Cables Kit, including (two) QMA/QMA cables, 80 cm length | |
| AK-RIU4-BU-CABLES | RIU-4 Cables Kit, including (four) QMA/N-Type 80 cm cables for BU connections | |
| AK-RIU4-EXP-BU | RIU-4 Expansion Accessory Kit for up to (four) base units | |
| AK-RIU-4-CNDTR-CABLES | Eight QMA to SMA cables (four pairs of different lengths optimized for RIU-4), RIU-4 included. | |
| RIU-4 Chassis and Modu | Note: The conditioner cables now come with the RIU chassis part number and not with the conditioner part numbers. In service upgrade scenarios at existing sites, call 866-436-9266 | |
| RIU-4 | Radio Interface Unit Chassis, can support up to four BTSC/BDAC conditioners | |
| RIU-BTSC-LTE-700 | 700 MHz LTE Conditioner, 0 to +40 dBm input range | |
| RIU-BTSC-PS700 | Public Safety 700 MHz Conditioner, +10 to +36 dBm input range | |
| RIU-BDAC-PS700 | Public Safety 700 MHz Conditioner, -16 to +36 dBm input range | |
| RIU-BTSC-CELL | Cellular Conditioner, +10 to +36 dBm input range | |
| RIU-BDAC-CELL | Cellular Conditioner, -16 to +10 dBm input range | |
| RIU-BTSC-IDEN | BTS iDEN/800 MHz SMR Conditioner, +10 to +36 dBm input range | |
| RIU- BDAC-IDEN | BDA iDEN/800 MHz SMR Conditioner, -16 to +10 dBm input range | |
| RIU-BTSC-SMR | 900 MHz SMR/Paging Conditioner, +10 to +36 dBm input range | |
| RIU-BDAC-SMR | 900 MHz SMR/Paging Conditioner, -16 to +10 dBm input range | |
| RIU-BTSC-PCS | BTS PCS Conditioner, +10 to +36 dBm input range | |
| RIU-BTSC-G-PCS | BTS PCS Conditioner for PCS with G-Block support, +10 to +36 dBm input range | |
| RIU- BDAC-PCS | BDA PCS Conditioner, -16 to +10 dBm input range | |
| RIU-BDAC-G-PCS | BDA PCS Conditioner w/G-Block support, -16 to +10 dBm input range | |
| RIU-BTSC-GSM | BTS GSM 900 MHz Conditioner, +10 to +36 dBm input range | |
| RIU-BTSC-GSM-O | BTS GSM 900 MHz Conditioner for Orange, +10 to +36 dBm input range | |
| RIU-BTSC-E-GSM | BTS EGSM 900 MHz Conditioner, +10 to +36 dBm input range | |
| RIU-BDAC-E-GSM | BDA EGSM 900 MHz Conditioner, -16 to +10 dBm input range | |
| | BTS DCS 1800 MHz Conditioner, +10 to +36 dBm input range | |
| RIU-BTSC-DCS | BTS UMTS 2100 MHz Conditioner, +10 to +36 dBm input range | |
| | BTS UMTS 2100 MHz Conditioner, +10 to +36 dBm input range | |
| RIU-BTSC-UMTS | BTS UMTS 2100 MHz Conditioner, +10 to +36 dBm input range BTS AWS Conditioner, +10 to +36 dBm input range | |

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DS_QB_RIU-4_CE0003701_A00_30JUN11



