



# UIDM-450WW# UHF IN-LINE DATA MODULE

- Connects to UHF Leaky Feeder Network with Low Mainline Loss <2 dB
- Line Powered (6-36 Vdc)
- Serial Connection Over Leaky Feeder
- Powers On-board Serial Device
- Dedicated RF Channel
- External Antenna Port

## FEATURES

Becker Mining Systems smartcom® 450 In-Line Data Module (UIDM) connects to the Leaky Feeder network with low main line loss to provide serial connection to an on-board serial (UART) device.

Serial data rates from 2400-115200 are supported. The connected serial device is powered through the IDM and one external antenna port is provided for tag reader functionality.

The smartcom® 450 In-Line Data Module UIDM-450WW# works in conjunction with the Surface Data Module USDM-450WW# to provide an Ethernet connection at the head end.

2 year component & workmanship warranty.

### TAG READER CHARACTERISTICS

Impedance	50Ω
Frequency	433.92 MHz
Input Voltage	5 Vdc
Current (max)	200mA

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

Rev. A

## TECHNICAL DATA

### PERFORMANCE SPECIFICATIONS

Impedance	50Ω
Input Voltage	6-36 Vdc
LF Cable	UHF-350
Current Consumption	< 140 mA (excludes tag reader)
DC Blocking	Jumper Selection on Board Input/Output
Power LED	Yes
Insertion Loss	<2 dB (25-480 MHz)
Downstream Freq	475.125 MHz (default)
Upstream Freq	450.125 MHz (default)
Interface	UART
Data Rate	115200 (default, 2400-115200 factory configured)
Parity	None (default)

### MECHANICAL DATA

Enclosure	Fiberglass reinforced polyester plastic
Dimensions (L x H x W)	290 x 91 x 140 mm (11.4 x 3.6 x 5.5 in)
Weight (nominal)	1.36 kg (3.0 lbs)
LF Connectors	Brass-Block
Antenna Port	N-Type Panel Jack
Serial Connector	On-board header

### ENVIRONMENTAL DATA

Temperature Range	-20 to +60° C (-4 to +140° F)
Protection Class	NEMA 4x (IP66)