

## DIGImini - EMEA & APAC

### Digital Multi-Band Mini Repeater

- Innovative digital mini repeater at price of legacy analog mini repeater
- Up to four frequency bands in two compact enclosures
- Software Defined Filtering of up to 6 sub-bands in each individual frequency band
- Single and dual band units for 900/2100 MHz and 1800/2600 MHz
- Individual gain and ALC settings for each sub-band for single and multi-operator applications
- Ideal for flexible In-building applications

Single band / Dual band



Tri band / Quad band



Axell Wireless' new DIGImini repeater (digital mini repeater) is an innovative flexible multiband coverage solution optimized for in-building applications.

Axell Wireless' DIGImini offers a completely new range of possibilities. With multi technology (e.g GSM/WCDMA) applications, multiple filters are required in the operation bands. The DIGImini is designed to provide high performance digital filters with a competitive price to legacy analog mini repeaters.

Up to four different frequency bands can be implemented in 2 dual band DIGImini repeaters. Each DIGImini repeater can be a single band 900/

1800/2100/2600MHz or dual band 900/2100MHz or 1800/2600MHz.

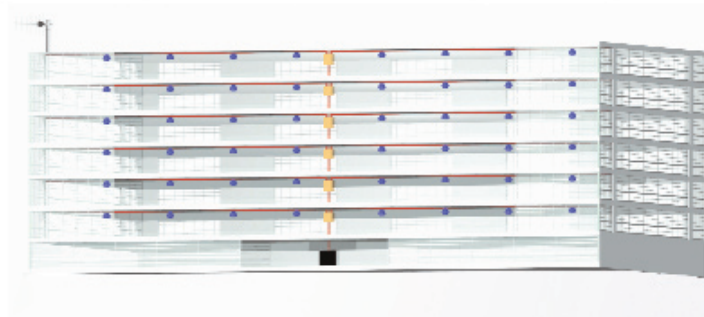
Easy "plug and play" allows our customers to add services as needed, thus minimizing their CAPEX. Software Defined Filtering of up to 6 sub-bands in each individual frequency band can be supported in a single or dual band configuration.

Individual Gain and ALC settings for each sub-band for multi-technology applications (e.g GSM/WCDMA) for single and multi-operator applications. A state-of-the-art Interference Mitigation and Oscillation Prevention (IMOP) is used to measure the isolation between the antennas

and gain is reduced immediately to prevent oscillation.

The DIGImini is connected to one donor antenna placed on the roof of the building and the radiating coaxial cable or antennas in the area to be covered. Configuration and monitoring of the DIGImini can be done through an intuitive web management GUI. Remote management is done via wireless modem.

With the Axell Wireless advanced supervision and control software, the entire fleet of digital multi-band repeaters can be monitored.



Axell Wireless' DIGImini repeater is powerful enough to drive a passive Distributed Antenna system (DAS) for coverage areas up to 25000 ft<sup>2</sup> (2500m<sup>2</sup>) in buildings, parking lots, malls, warehouses and offices.

## SPECIFICATIONS

| 900 MHz FREQUENCY BAND                   |  | UPLINK  | DOWNLINK              |
|--|--|---|-----------------------|
| Operating Frequency Range                |  | 880-915MHz  | 925-960MHz            |
| Output power at antenna port (composite) |  | 20dBm   | 20dBm                 |
| Pass band maximum gain                   |  | 73dB  | 73dB                  |
| Gain attenuation range                   |  | 0-25dB (in 1dB steps)   | 0-25dB (in 1dB steps) |
| Pass band ripple                         |  | ± 2.5dB   | ± 2.5dB               |
| Noise Figure @ max gain                  |  | 6dB   | 6dB                   |
| Propagation delay                        |  | < 6 µsec  | < 6 µsec              |
| Number of filters per band (*)           |  | Up to 6   | Up to 6               |
| 1800 MHz FREQUENCY BAND                  |  |   |                       |
| Operating Frequency Range                |  | 1710-1785MHz  | 1805-1880MHz          |
| Output power at antenna port (composite) |  | 20dBm   | 20dBm                 |
| Pass band maximum gain                   |  | 73dB  | 73dB                  |
| Gain attenuation range                   |  | 0-25dB (in 1dB steps)   | 0-25dB (in 1dB steps) |
| Pass band ripple                         |  | ± 2.5dB   | ± 2.5dB               |
| Noise Figure @ max gain                  |  | 6dB   | 6dB                   |
| Propagation delay                        |  | < 6 µsec  | < 6 µsec              |
| Number of filters per band (*)           |  | Up to 6   | Up to 6               |
| 2100 MHz FREQUENCY BAND                  |  |   |                       |
| Operating Frequency Range                |  | 1920-1980MHz  | 2110-2170MHz          |
| Output power at antenna port (composite) |  | 20dBm   | 20dBm                 |
| Pass band maximum gain                   |  | 73dB  | 73dB                  |
| Gain attenuation range                   |  | 0-25dB (in 1dB steps)   | 0-25dB (in 1dB steps) |
| Pass band ripple                         |  | ± 2.5dB   | ± 2.5dB               |
| Noise Figure @ max gain                  |  | 6dB   | 6dB                   |
| Propagation delay                        |  | < 6 µsec  | < 6 µsec              |
| Number of filters per band (*)           |  | Up to 6   | Up to 6               |
| 2600 MHz FREQUENCY BAND                  |  |   |                       |
| Operating Frequency Range                |  | 2500-2570MHz  | 2620-2690MHz          |
| Output power at antenna port (composite) |  | 20dBm   | 20dBm                 |
| Pass band maximum gain                   |  | 73dB  | 73dB                  |
| Gain attenuation range                   |  | 0-25dB (in 1dB steps)   | 0-25dB (in 1dB steps) |
| Pass band ripple                         |  | ± 2.5dB   | ± 2.5dB               |
| Noise Figure @ max gain                  |  | 6dB   | 6dB                   |
| Propagation delay                        |  | < 6 µsec  | < 6 µsec              |
| Number of filters per band (*)           |  | Up to 6   | Up to 6               |
| ELECTRICAL SPECIFICATION                 |  |   |                       |
| Power Supply                             |  | 110/240 VAC   |                       |
| Power Consumption                        |  | <70 Watt for dual band, < 45 W for single band  |                       |
| ENVIRONMENTAL SPECIFICATION              |  |   |                       |
| Operating Temperature Range              |  | 0 to 50°C   |                       |
| Humidity                                 |  | 85%, ETS 300 019-1-3 Class 3.1  |                       |
| MTBF, complete system                    |  | >70 000 hrs   |                       |
| MECHANICAL SPECIFICATION                 |  |   |                       |
| Dimensions:                              |  | 299 x 305 x 77 mm (b x h x d)   |                       |
| Installation                             |  | wall mount  |                       |
| Weight:                                  |  | 4 kg for dual band  |                       |
| Complies with                            |  | ETSI EN 301 502, (ETSI EN 300 609-4/GSM 11.26)<br>ETSI EN 301 489 - 8, ETSI EN 301 489 - 23,<br>ETSI TS 125 106, 3GPP TS 25 106 |                       |

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

(\*) Supports every BW option 200kHz-25MHz by setting the start-stop frequency. Total number of filters is 6 in dual band

| ORDERING INFORMATION |                              |                  |
|----------------------|------------------------------|------------------|
| Identification       | Description part             | Number           |
| DIGI Mini 900/2100   | DIGI mini 900/2100 20/20dBm  | D-MINI-2009-2021 |
| DIGI Mini 1800/ 2600 | DIGI mini 1800/2600 20/20dBm | D-MINI-2018-2026 |
| DIGI Mini 900        | DIGI mini SB 900 20dBm       | D-MINI-2009      |
| DIGI Mini 1800       | DIGI mini SB 1800 20dBm      | D-MINI-2018      |
| DIGI Mini 2100       | DIGI mini SB 2100 20dBm      | D-MINI-2021      |
| DIGI Mini 2600       | DIGI mini SB 2600 20dBm      | D-MINI-2026      |
| DIGI Mini GPRS Modem | External GPRS modem          | D-MINI-GPRS-M    |

### About Axell Wireless

Axell Wireless is one of the top 3 global providers of wireless coverage solutions and the market leader in the provision of solutions for the public safety market worldwide. Applications for Axell Wireless equipment include coverage solutions for all sorts of environments including road and rail tunnels, metros, small and large buildings and transportation systems such as railways and aeroplanes. With its headquarters in the UK, Axell Wireless has been operating for over 30 years and has a substantial international presence operating out of 10 offices across 4 continents. A proven track record combined with a worldwide reputation for providing innovative and high quality products have made Axell Wireless a truly global player in the wireless coverage industry.

[www.axellwireless.com](http://www.axellwireless.com)