CRITICAL COMMUNICATIONS
TETRA FAMILY

DIGITAL OFF-AIR REPEATERS

- SDR based digital filtering
- Band and channel selective characteristics (up to 6.5 MHz bandwidth or up to 10 channels)*
- 24 or 36 dBm downlink output power
- In band frequency offset function
- Built in isolation measurements between mobile and donor ports
- Built in spectrum analyser function
- Ethernet remote control option
- Optional 2G / 4G remote control
- NMS capability & compatibility
- Wall mount construction with IP65 protection or rack mount

* For more details please see our 6.5 MHz TETRA PRODUCT FAMILY brochure.

PARAMETERS

<table>
<thead>
<tr>
<th>Model</th>
<th>RF Gain</th>
<th>Downlink</th>
<th>Uplink</th>
<th>Wall Mount</th>
<th>19&quot; Rack Mount</th>
<th>Combined Port</th>
<th>Separated Port</th>
<th>SNMP Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRTL32</td>
<td>76 dB</td>
<td>24 dBm</td>
<td>22 dBm</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>BRTL34</td>
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<td>24 dBm</td>
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<tr>
<td>BRTL35</td>
<td>76 dB</td>
<td>24 dBm</td>
<td>22 dBm</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>BRTL42</td>
<td>90 dB</td>
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<td>24 dBm</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tbody>
</table>

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**OPTICAL REPEATERS**

- Master – Slave configuration
- Various architectures: point to point, star, daisy chain
- Modular construction, easy to extend
- Mini and Macro Slave units can be combined
- Wavelength-division multiplexing (WDM)
- Dual TETRA – UHF band support
- Various radio systems support (TETRA, PMR, DMR)
- Multiband options (FM / DAB / TETRA / GSM / UMTS)
- NMS capability & compatibility

- Up to 32 slaves supported with 1 master
- Ethernet, SNMP control interface
- Optional 2G / 4G remote control
- 19" rack mount master units
- Different level of redundancy
- 24 or 36 dBm composite downlink output power
- Remote control via the master (RS-232 or Ethernet interface on slave units)
- Wall mount, 19" rack mount or optional ATEX housing

**OPTICAL MASTER REPEATERS**

<table>
<thead>
<tr>
<th>Technical RF Band</th>
<th>Model</th>
<th>Gain</th>
<th>Max Input Power Level</th>
<th>Single</th>
<th>Dual</th>
<th>Extendable</th>
<th>Max Number of Slaves</th>
<th>Max Number of Slaves</th>
<th>Redundant Support</th>
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<tbody>
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<td>✓</td>
<td>✓</td>
<td>8</td>
<td>32</td>
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</tbody>
</table>

**OPTICAL SLAVE REPEATERS**

- All slave units based on 5-WDM and can be used in point to point, star and daisy chain configuration as well.

**BRMF50**
- Simple optical master for redundant point-to-point network
- Suitable for in-building coverage

**BRMF55**
- Single RF band 5 wave WDM optical master unit for redundant star topology
- Supports up to 32 optical channels, extendable on site

**BRMF36**
- Dual RF band 5 wave WDM master unit for redundant star and daisy chain topology
- Supports up to 32 optical slave units, extendable on site

[All slave units based on 5-WDM and can be used in point to point, star and daisy chain configuration as well.]
ANALOGUE OFF-AIR REPEATERS

- 18, 22 or 36 dBm downlink output power
- 5 or 6.5 MHz bandwidth*
- Optional uplink squelch function
- Various control interfaces (RS-232, Ethernet, SNMP)
- Optional 2G / 4G remote control
- Indoor or outdoor application
- Wall mounted or 19” rack mount constructions
- Dual TETRA band option

<table>
<thead>
<tr>
<th>Model</th>
<th>RF Gain</th>
<th>Downlink Power</th>
<th>Wall Mount</th>
<th>19” Rack Mount</th>
<th>Combined Port</th>
<th>Separated Port</th>
<th>Optional UL Muting</th>
<th>SNMP Control</th>
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</tr>
</tbody>
</table>

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NETWORK MANAGEMENT SYSTEM

- Server-Client architecture
- GSM modem for SMS reception or SNMP based interface
- MySQL 5.1 database engine
- Log and history function
- Location and status visualization
- Event and alarm handling
- Web GUI option
- Syslog
- Redundancy switching
- NMS Light: limited number of slaves

PASSIVE COMPONENTS

- **BDST1x** Directional coupler 6-10-30-50 dB
- **BFDP47** Diplexer TETRA-multiband
- **BHTD22** 6 channel radio terminal combiner
- **BUST15** Redundant switch 19” rackmount

RACK - WALL MOUNT OR ATEX HOUSING

- Pico repeater in ATEX housing
- Mini repeater in ATEX housing