Wireless Update
Nv2 for ARM boards

• Nv2 wireless protocol improvements for RouterBOARDs using ARM architecture – speed improvement and stability

• Changes added in RouterOS v6.44
UNII-2 frequency band

- Added support for UNII-2 wireless frequency band for US locked boards
- First boards:
  - RBLHG-5HPnD-XL
  - RBLHG-5HPnD
  - RBSXTsq5HPnD
- Support added in RouterOS v6.45beta27
Canada country selection

• Added option for selecting Canada country in wireless configuration for the US locked boards

• First boards:
  - RBLHG-5HPnD-XL
  - RBLHG-5HPnD
  - RBSXTsq5HPnD

• Option enabled starting with RouterOS v6.45beta27
LTE Update
Full range LTE products

wAP LTE kit

LtAP mini LTE kit
Full range LTE products

SXT LTE kit

LHG LTE kit
LTAP

- Multi-core CPU
- Gigabit Ethernet
- Built-in 2.4ghz Wireless
- Built-in GPS
- 2 slots for LTE modems (one slot support USB 3.0)
- USB port (shared with slot for modem)
R11e-4G modem

- LTE modem designed for 2.6Ghz and 3.5Ghz LTE networks
- Supported LTE bands:
  - TDD 41,42,43
  - FDD 3,7,20,31
- NO support for 2G and 3G networks
New 4G modem kits

- **wAP 4G kit:**
  - wAP R + R11e-4G modem
- **LtAP mini 4G kit:**
  - LtAP mini + R11e-4G modem
- **SXT 4G kit:**
  - SXT R + R11e-4G modem
- **LHG 4G kit:**
  - LHG R + R11e-4G modem
Differences between R11e modems

- Each modem supports different LTE bands and designed for different market
Difference between LTE, LTE-US, 4G kits

- Each kit has board with different LTE modem inside:
  - LTE – R11e-LTE modem
  - 4G – R11e-4G modem
Audience LTE

- Two 5Ghz wireless
  - 4x4 MIMO
  - 2x2 MIMO
- One 2.4Ghz wireless
  - 2x2 MIMO
- LTE CAT6 modem
CAT 6 LTE modem

• First MikroTik LTE Category 6 LTE modem:
  – Downlink up to 300Mbps
  – Uplink up to 50Mbps
  – Mini-PCIe form factor
  – Supported by all the RouterBOARDS with mini-PCIe slots that are designed for modems

• Carrier Aggregation (CA) with up to 2 bands

• Supported LTE bands and CA combinations – released in Summer
InterCell Series

• First MikroTik LTE SmallCell BaseStation Product line

• First InterCell products focuses on Outdoor solutions

• First InterCell Series product:
  – 10W outdoor Base Station for LTE Band 38 (2.6Ghz) and Band 39 (1.9Ghz)
InterCell Series Outdoor

- 10W TDD 2x2 MIMO LTE Base Station
- Single Carrier and Dual Carrier option
- 5/10/15/20 Mhz channel width support
- 4 Products with different LTE Bands:
  - B38+B39
  - B38+B38
  - B38
  - B39
InterCell Series Outdoor LTE Band Mapping

- Option to enable the mapping to a different LTE bands that supports the same frequency range

- B38 supported range (2570-2620Mhz)
  - Band-mapping to B41 within the same range (2570-2620Mhz)

- B39 supported range (1880-1920Mhz)
  - Band-mapping to B33 within the same range (1900-1920Mhz)
InterCell Series Outdoor

- LTE speed per Cell
  - DL 140Mbps (256QAM, SF2)
  - UL 30Mbps (64QAM, SF1)
- Supported Clients per Cell
  - Up to 96 Connected Active
  - Up to 192 Connected
- Built-in EPC on board with up to 256 client support
- VoLTE and LIPA support
- +/-48VDC Power supply
- 2xSFP and 2xETH (gigabit ports)
- Metal Enclosure with IP 67 rating
InterCell Future plans

• Create new outdoor InterCell products for different LTE bands/frequencies
  – CBRS (B42, B43, B48)
  – Full B41 support

• Make Indoor SmallCell products
Thank you

For more info visit the MUM Registration table