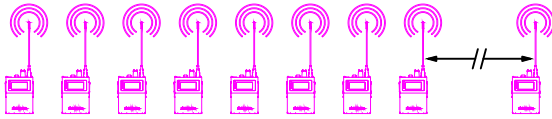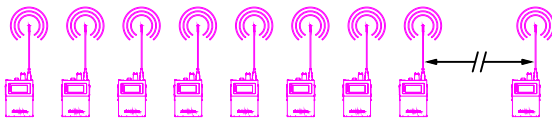# MOBILE COMPONENT (MC)

Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal
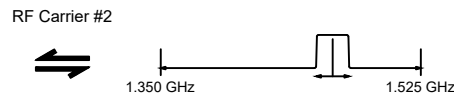
RF CARRIER (RFC)
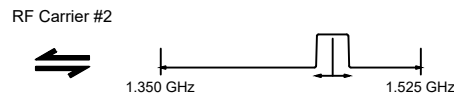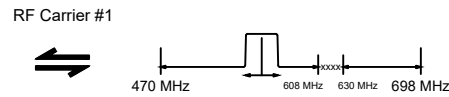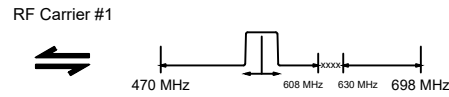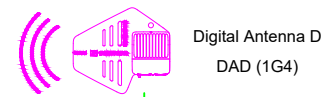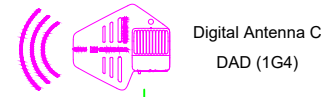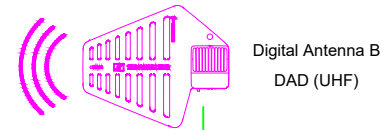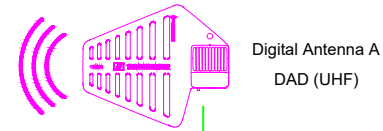
Optimized for:
Double Channel Capacity
Range Extension & Multi-Zones
Licensed Spectrum in 1G4

DIGITAL ANTENNA DIRECTIONAL (DAD)

1, 2, 3 or 4 DADs per Base Station
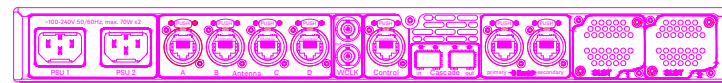2x DAD (UHF) on RF CARRIER #1
2x DAD (1G4) on RF CARRIER #2

SENNHEISER

RF Carrier #1

470 MHz   608 MHz   630 MHz   698 MHz

RF Carrier #1

Digital Antenna A
DAD (UHF)

RF Carrier #1

470 MHz   608 MHz   630 MHz   698 MHz

RF Carrier #1

Digital Antenna B
DAD (UHF)

Up to 128 Mobile Components can be paired on RF Carrier #1

RF Carrier #2

1.350 GHz   1.525 GHz

RF Carrier #2

Digital Antenna C
DAD (1G4)

RF Carrier #2

1.350 GHz   1.525 GHz

RF Carrier #2

Digital Antenna D
DAD (1G4)

Up to 128 Mobile Components can be paired on RF Carrier #2

Technical Application Engineering (TAE) System Drawings

Drawing name	Rev.
SPECTERA Systems: Nº 8	1.0

Description
2x RFC, 2x DAD (UHF) & 2x DAD (1G4)

Mobile Components

- SEK (UHF): 470 - 698 MHz
- SEK (1G4): 1.350 - 1.525 GHz
- MICs and IEMs at the same time on any SEKs
- Audio Input: 3-pin audio socket, Mic & Instr.
- Audio Output: 3.5 mm stereo jack
- RF Power Output: Up to 50 mW
- Power supply: Single BA 70 battery pack
  Operating time: depending on selected Audio Link Mode

Antenna, RF Carrier & Cables

- DAD (UHF): 470 - 698 MHz
- DAD (1G4): 1.350 - 1.525 GHz
- Both models can coexist on a Base Station
- Modes: - Single RF Carrier, 6 or 8 MHz
          - Frequency Scan, Full Band
- Pairing Capacity: 128 Mobile Components per RF Carrier
- RF Power Output : Up to 100 mW
- Network: Proprietary, Layer 1, Home runs
- Power Input: POE (from Base Station)
- Connector: RJ45, etherCON compatible
- Cable: CAT 5e UTP / STP or better
- Optical: with layer 1 media converters

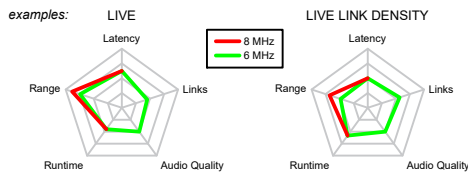## SPECTERA BASE STATION

Base Station & Audio Interfaces

- INPUT Capacity (IEM/IFB)
  Up to 32 Audio Links (16 stereo) can be assigned
- OUTPUT Capacity (MIC or Instrument)
  Up to 32 Audio Links can be assigned
- SAMPLE RATE
  48 or 96 kHz with SRC for each interface
- Dante®, Primary & Secondary or Shared
- Optional slots: 2 for MADI, BNC and Optical
- Digital Antenna Ports: 4 on Base Station
- RF Carrier: Up to 2 per Base Station

examples:

LIVE
Latency — Range — Links — Runtime — Audio Quality
(8 MHz / 6 MHz)

LIVE LINK DENSITY
Latency — Range — Links — Runtime — Audio Quality
(8 MHz / 6 MHz)

Audio Link Modes:
- Up to 11 different modes for MICs and IEMs currently
- Independent for each Link
- Impacting the RF Channel Capacity

Clocking options:
- Individually selectable for each audio interface
- The Dante® Audio Network is set with Dante® Controller software

	MADI 1 Output	MADI 2 Output	Word clock BNC Output
Leader 48 kHz	✓	✓	✓
Leader 96 kHz	✓	✓	✓
Follow MADI 1 Input	✓	✓	✓
Follow MADI 2 Input	✓	✓	✓
Follow Word clock BNC Input	✓	✓	✓
Follow Audio Network (Dante®)	✓	✓	✓

➜ *Please contact your local Sennheiser representative for SPECTERA availability in your market*

MM 2024-08-04