RF CARRIER (RFC)

DIGITAL ANTENNA DIRECTIONAL (DAD)

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

Digital Antenna A

DAD (UHF)



Technical Application Engineering (TAE) System Drawings

Drawing name SPECTERA Systems: Nº 1 Rev. 1.0

Description

1x RFC, 1x DAD (UHF) for RFC #1

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 Output: 3.5 mm stereo jack

RF Power Output: Up to 50 mW

Power supply: Single BA 70 battery pack Audio Link Mode

Antenna, RF Carrier & Cables

- DAD (UHF): 470 698 MHz
- DAD (1G4): 1.350 1.525 GHz

Modes: - Single RF Carrier, 6 or 8 MHz

- Frequency Scan, Full Band

per RF Carrier

Optical: with layer 1 media converters

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

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

Audio Input: 3-pin audio socket, Mic & Instr.

Operating time: depending on selected

Both models can coexist on a Base Station

Pairing Capacity: 128 Mobile Components

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

48 or 96 kHz with SRC for each interface

Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

Optimized for: Smallest System Configuration

RF Carrier #1

470 MHz

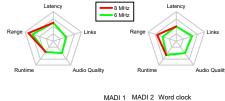


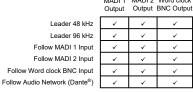
Up to 128 Mobile Components can be paired on RF Carrier #1

examples: LIVE LIVE LINK DENSITY Latency 8 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







Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

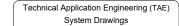
RF CARRIER (RFC)

Optimized for: Range Extension & Multi-Zones

DIGITAL ANTENNA DIRECTIONAL (DAD)

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





Drawing name SPECTERA Systems: Nº 2 Rev. 1.0

Description

1x RFC, 3x DAD (UHF) for RFC #1

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

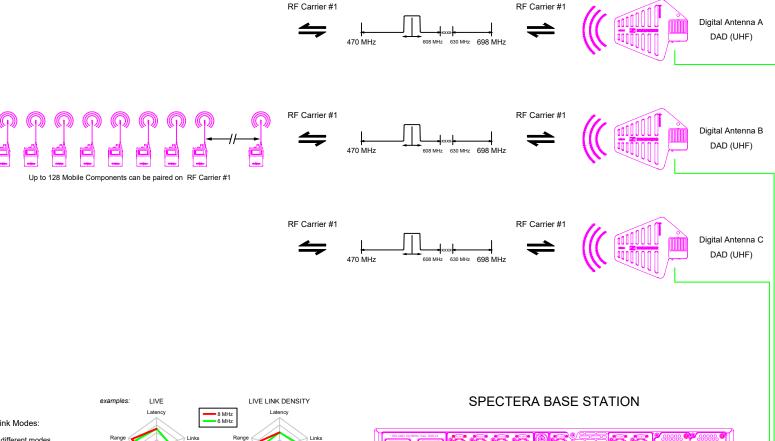
Cable: CAT 5e UTP / STP or better

Optical: with layer 1 media converters

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

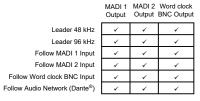


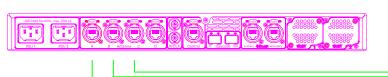
Audio Link Modes:

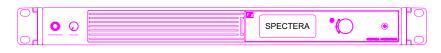
- Up to 11 different modes for MICs and IEMs currently
- Independent for each Link
- Impacting the RF Channel Capacity

Clocking options:

- Individually selectable for each audio interface
- The Dante[®] Audio Network is set with Dante[®] Controller software







Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

RF CARRIER (RFC)

Optimized for: **Double Channel Capacity**

DIGITAL ANTENNA DIRECTIONAL (DAD)

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



Technical Application Engineering (TAE) System Drawings Drawing name Rev.

1.0

SPECTERA Systems: Nº 3 Description

2x RFC, 1x DAD (UHF) per RFC

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

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

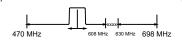
SAMPLE RATE

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





RF Carrier #1







Digital Antenna A DAD (UHF)

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









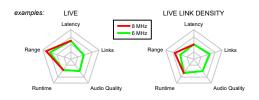






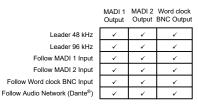
Audio Link Modes:

- 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







Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

RF CARRIER (RFC)

Optimized for: **Double Channel Capacity** Licensed Spectrum in 1G4

DIGITAL ANTENNA DIRECTIONAL (DAD)

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





Description

2x RFC, 1x DAD (1G4) per RFC

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

Base Station & Audio Interfaces

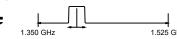
- INPUT Capacity (IEM/IFB)
- Up to 32 Audio Links (16 stereo) can be assigned
- OUTPUT Capacity (MIC or Instrument) Up to 32 Audio Links can be assigned
- SAMPLE RATE

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



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



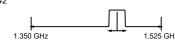








RF Carrier #2



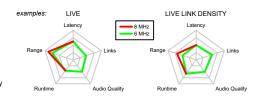






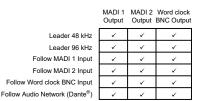
Audio Link Modes:

- 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







Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

RF CARRIER (RFC)

Optimized for: **Double Channel Capacity** Licensed Spectrum in 1G4

DIGITAL ANTENNA DIRECTIONAL (DAD)

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



Technical Application Engineering (TAE) System Drawings Drawing name Rev. SPECTERA Systems: Nº 5 1.0

Description

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

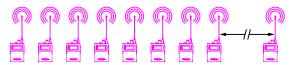
Cable: CAT 5e UTP / STP or better Optical: with layer 1 media converters

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

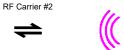
48 or 96 kHz with SRC for each interface Dante®, Primary & Secondary or Shared Optional slots: 2 for MADI, BNC and Optical Digital Antenna Ports: 4 on Base Station RF Carrier: Up to 2 per Base Station







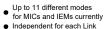




Digital Antenna B DAD (1G4)

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

- 6 MHz Audio Link Modes:



Clocking options:

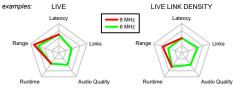
Individually selectable

for each audio interface

The Dante® Audio Network is set

with Dante® Controller software

• Impacting the RF Channel Capacity



MADI 1 MADI 2 Word clock Output Output BNC Output

Leader 48 kHz	✓	~	✓
Leader 96 kHz	✓	✓	✓
Follow MADI 1 Input	✓	✓	✓
Follow MADI 2 Input	✓	✓	✓
Follow Word clock BNC Input	1	·	✓
ollow Audio Network (Dante®)	·	· /	✓





Multiple MOBILE COMPONENTS can receive the same IEM/IFB signal

RF CARRIER (RFC)

Optimized for:
Double Channel Capacity
Range Extension & Multi-Zones

DIGITAL ANTENNA DIRECTIONAL (DAD)

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



Technical Application Engineering (TAE)
System Drawings

Drawing name Rev.
SPECTERA Systems: Nº 6 1.0

2x RFC, 2x DAD (UHF) per RFC

Description

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

Antenna, RF Carrier & Cables

Audio Link Mode

- 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)

Power Input: POE (from Base Station)

Connector: RJ45, etherCON compatible

Cable: CAT 5e UTP / STP or better

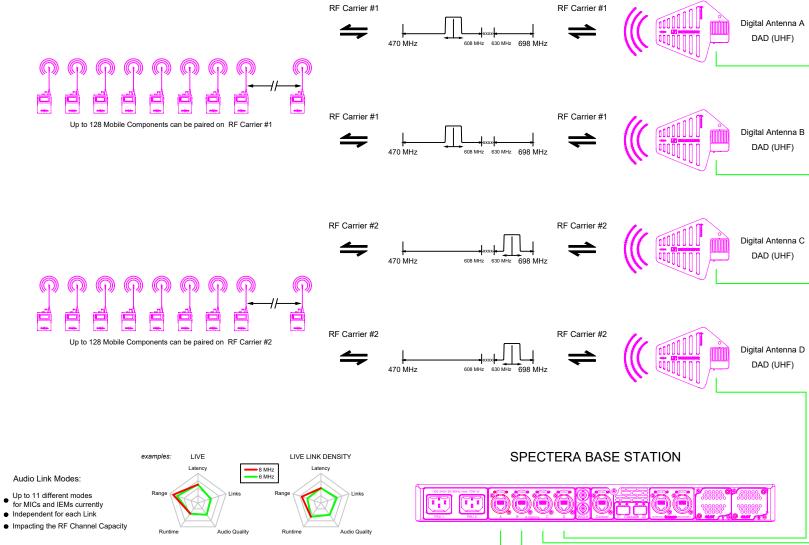
Optical: with layer 1 media converters

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

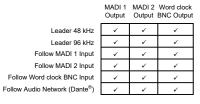
48 or 96 kHz with SRC for each interface Dante[®], Primary & Secondary or Shared Optional slots: 2 for MADI, BNC and Optical Digital Antenna Ports: 4 on Base Station RF Carrier: Up to 2 per Base Station

SENNHEISER



Clocking options:

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





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 (1G4) on RF CARRIER #1 2x DAD (1G4) on RF CARRIER #2

Digital Antenna A

DAD (1G4)

Digital Antenna B

DAD (1G4)

Digital Antenna C

DAD (1G4)



Technical Application Engineering (TAE) System Drawings Drawing name Rev. SPECTERA Systems: Nº 7 1.0

Mobile Components

2x RFC, 2x DAD (1G4) per RFC

Description

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

Antenna, RF Carrier & Cables

Audio Link Mode

- 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

Network: Proprietary, Layer 1, Home runs Power Input: POE (from Base Station)

Connector: RJ45, etherCON compatible

RF Power Output: Up to 100 mW

Cable: CAT 5e UTP / STP or better

Optical: with layer 1 media converters

Base Station & Audio Interfaces

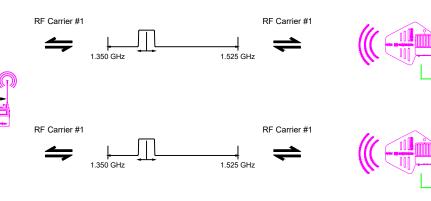
INPUT Capacity (IEM/IFB)

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





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

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

examples:

LIVE



LIVE LINK DENSITY

RF Carrier #2

1.350 GHz







SPECTERA BASE STATION

RF Carrier #2



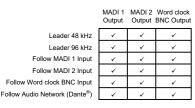


- Up to 11 different modes for MICs and IEMs currently
- Independent for each Link
- Impacting the RF Channel Capacity



Clocking options:

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



8 MHz - 6 MHz



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





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

Antenna, RF Carrier & Cables

Audio Link Mode

- 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

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

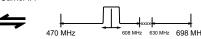




Up to 128 Mobile Components can be paired on RF Carrier #1



RF Carrier #2





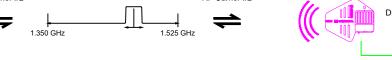
RF Carrier #2



Digital Antenna B DAD (UHF)

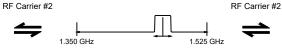








Up to 128 Mobile Components can be paired on RF Carrier #2

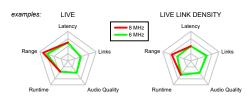






Audio Link Modes:

- 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

