



# evolution wireless G4

ew 100 G4-835-S | ew 100 G4-845-S |

ew 100 G4-865-S | Vocal Set

## SPECIFICATIONS

### EM 100 G4

#### RF characteristics

Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
Receiving frequencies	Max. 1680 receiving frequencies, adjustable in 25 kHz steps  20 frequency banks, each with up to 12 factory-preset channels, no intermodulation  1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	$\pm 24$ kHz / $\pm 48$ kHz
Receiver principle	True diversity
Sensitivity (with HDX, peak deviation)	$< 2.5 \mu\text{V}$ for 52 dBA <sub>eff S/N</sub>
Adjacent channel selection	Typically $\geq 65$ dB
Intermodulation attenuation	Typically $\geq 65$ dB
Blocking	$\geq 70$ dB

Squelch	low: 5 dB $\mu\text{V}$ middle: 15 dB $\mu\text{V}$ high: 25 dB $\mu\text{V}$
Pilot tone squelch	Can be switched off
Antenna inputs	2 BNC sockets

#### AF characteristics

Compander system	Sennheiser HDX
EQ presets (switchable, act on line and monitor outputs)	Preset 1: Flat Preset 2: Low Cut (-3 dB at 180 Hz) Preset 3: Low Cut/High Boost (-3 dB at 180 Hz, +6 dB at 10 kHz) Preset 4: High Boost (+6 dB at 10 kHz)
Signal-to-noise ratio (1 mV, peak deviation)	$\geq 110$ dBA
Total harmonic distortion (THD)	$\leq 0.9$ %
AF output voltage (at peak deviation, 1 kHz AF)	6.3 mm jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu
Setting range "AF Out"	48 dB (3 dB steps)
<b>Overall device</b>	
Temperature range	-10 °C to +55 °C
Power supply	12 V DC
Current consumption	300 mA
Dimensions	Approx. 190 x 212 x 43 mm
Weight	Approx. 980 g

## CONNECTIONS





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## SPECIFICATIONS

### SKM 100 G4-S

RF characteristics	
Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
Transmission frequencies	Max. 1680 receiving frequencies, adjustable in 25 kHz steps  20 frequency banks, each with up to 12 factory-preset channels, no intermodulation  1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	$\pm 24$ kHz / $\pm 48$ kHz
Frequency stability	$\leq \pm 15$ ppm
RF output power at 50 $\Omega$	Max. 30 mW
Pilot tone squelch	Can be switched off

### AF characteristics

Compander system	Sennheiser HDX
AF frequency response	80 - 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	$\geq 110$ dBA
Total harmonic distortion (THD)	$\leq 0.9$ %
Max. input voltage	3 V <sub>eff</sub>
Input impedance	40 k $\Omega$
Input capacitance	Switchable
Setting range for input sensitivity	48 dB, adjustable in 6 dB steps

### Overall device

Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption	at nominal voltage: typ. 180 mA with transmitter switched off: $\leq 25$ $\mu$ A
Operating time	Typically 8 h
Dimensions	Approx. $\varnothing$ 50 x 265 mm
Weight (incl. batteries)	approx. 450 g

## SPECIFICATIONS

### MMD 835-1

Transducer principle	dynamic
Sensitivity	2.1 mV/Pa
Sound pressure level	154 dB SPL
Pick-up pattern	cardioid

### MMD 845-1

Transducer principle	dynamic
Sensitivity	1.6 mV/Pa
Sound pressure level	154 dB SPL
Pick-up pattern	supercardioid

### MME 865-1

Transducer principle	pre-polarized condenser microphone
Sensitivity	1.6 mV/Pa
Sound pressure level	152 dB SPL
Pick-up pattern	supercardioid