



# NY3L Series — 1-Channel Speech Synthesizer with LED Control

2020/6/10

P/N	Sec (6kHz)	Sec (8kHz)	Voice Algorithm	MOQ (K pcs)	MFQ (K pcs)	Operating Voltage	I/O	OKY	Toggle On/Off	POP	QIO	LCO	Sink Current	LVR	Section	Sentence	Step	Operating Freq.	Playspeed Option	Playspeed Freq.	Int. Rosc	PWM On/Off	Edge Loop	Loop On/Off	Loop End	Anti-Noise Debounce	Noise TG	PWM	Large PWM	Pad Count	Flash Demo Board
NY3L003A	3.1	2.3	4/5-bit	65K	350K	1.6~6.4V	5	1	1	v	3	5	4-Level	-	32	16	256	768kHz	27	1	+/- 3%	v	v	v	v	v	v	9-bit	-	9	NY4_FDB-02
NY3L006A	6.1	4.6	4/5-bit	59K	300K	1.6~6.4V	5	1	1	v	3	5	4-Level	-	32	16	256	768kHz	27	1	+/- 3%	v	v	v	v	v	v	9-bit	-	9	NY4_FDB-02
NY3L009A	9.2	6.9	4/5-bit	50K	270K	1.6~6.4V	5	1	1	v	3	5	4-Level	-	32	16	256	768kHz	27	1	+/- 3%	v	v	v	v	v	v	9-bit	-	9	NY4_FDB-02
NY3L012A	12.3	9.2	4/5-bit	50K	250K	1.6~6.4V	5	1	1	v	3	5	4-Level	-	32	16	256	768kHz	27	1	+/- 3%	v	v	v	v	v	v	9-bit	-	9	NY4_FDB-02

**Remarks:**

1. 4-bit (S): NY3AxxxD use Simple 4-bit LOG-PCM algorithm, and it's normally applied in sound-effect applications.
2. 4/5-bit: 4-bit/5-bit Mixed Advanced LOG-PCM algorithm for NY3AxxxE & NY3BxxxC, and 4-bit/5-bit Mixed ADPCM algorithm for NY3C.
3. POP: Power On Play function.
4. QIO: Quick-IO output signal.
5. LCO & LSC: Normal Large Current Output & very Large Sink Current output.
6. CSC: Constant Sink Current output.
7. LVR: Low voltage reset at 1.5V.
8. 4-Level Sink Current: 100%, 80%, 50%, 30%.
9. Large PWM: Louder audio output than normal PWM.
10. Power PWM: Louder audio output than large PWM.