

	NAO Evolution	NAO ⁶
Camera	ATOM Z530 1.6 GHz CPU Bi core 1 GB RAM 2 GB Flash memory + 8 GB Micro SDHC	ATOM E3845 1.91 GHz CPU Quad core 4 GB DDR3 RAM 32 GB SSD
Camera	Field of view: 72.6°DFOV (60.9°HFOV, 47.6°VFOV) Focus range: 30cm ~ infinity Cocus type: Fixed focus	Field of view: 68.2° DFOV (57.2°HFOV, 44.3°VFOV) Focus range: 30cm ~ infinity Cocus type: Autofocus
Audio	Cardioid microphones (-12dB) Loudspeakers: Foxconn Amato	Omnidirectional microphones (-12dB) +Audio codec Loudspeakers: Seltech 40S19 custom
Motor		New motors with a lifetime improvement
Color	Red, blue, light grey	Dark grey

	NAO Evolution	NAO ⁶	NAO ⁶ Performances
Boot time	131.7 s	79.4 s	~2x faster
System upgrade time	22 min	5 min	~4x faster
Ethernet performances	Download 162 Mbit/s	Download 556.8 Mbit/s	~3x faster
	Upload 138 Mbit/s	Upload 381.9 Mbit/s	~3x faster
Wifi performances	Download 13 Mbit/s	Download 150 Mbit/s //180 Mbits/s	~12x faster
	Upload 15.5 Mbit/s	Upload 110 Mbit/s //130 Mbits/s	~7x faster
Disk memory	Read speed 96.8 MB/s	Read speed 189 MB/s	~2x faster
	Write speed 95.2 MB/s	Write speed 486 MB/s	~5x faster
	Effective user dedicated space 15GB	Effective user dedicated space 25 GB	~2x better
CPU	Effective user dedicated CPU 33%	Effective user dedicated CPU 58%	~2x more effective
RAM	Effective user dedicated RAM 600 MB	Effective user dedicated RAM 2.9 GB	~5x more effective

	NAO Evolution	NAO ⁶	NAO ⁶ Performances
Fan Noise @1m (100%/60%)	40.7 dB(a)/38.8 dB(a)	50 dB(a)/36 dB(a)	Better cooling performance
Worst case CPU temp (fan 100%)	84°C	60°C	
WER in quiet environment: → ambient 50dB/voice 70dB	90%	10%	~9x understanding
WER in public environment: → ambient 73dB/voice 76dB	80%	15%	~5x understanding
WER in a mall environment: → ambient 76dB/voice 76dB → ambient 76dB/voice 79dB	90% 20%	23% 13%	~4x understanding ~2x understanding
Speaker volume	80 dB(c)	89 dB(c)	~2x louder
Microphone saturation (from speakers in %)	NA	74%	Allow Acoustic Echo Cancellation
Camera resolution	Top: 1280 x 960 @5fps Bottom: 1280 x 960 @5fps	Top: 2560 x 1920 @15fps Bottom: 1280 x 960 @15fps	~2x / ~3x ~ / ~3x
Dual Mode Camera	Not stable	Yes	➔ New feature