

Industrial Motherboard for OEM/ODM

# ONYX NanoITX-SKL1

Nano-ITX 6th Generation Intel® Core™ 15W Processor Nano-ITX Board



## Features

- 6th Generation Intel® Core™ i7/i5/i3/Celeron® 15W BGA Processor
- Dual Gigabit Ethernet
- Dual HDMI Port
- USB 3.2 Gen 1 Port x 4
- COM Port x 1



## Specifications

### System

Processor	6th generation Intel® 14nm ULT Core™, BGA CPU, 15W TDP. i7-6600U 2C/4T GT2 2.6/3.4 GHz 4M/ i5-6300U 2C/4T GT2 2.4/3.0 GHz 3M/ i3-610U 2C/4T GT2 2.3 GHz 3M/ Celeron® 3955U 2C/2T GT1 (f) 2.0 GHz 2M
Chipset	Integrated into SoC
Memory	Memory SODIMM x 2, max. 32 GB, DDR4 2133/1867 MHz non-ECC, un-buffered memory
I/O Chipset	NCT5538D
Ethernet	Realtek 8111G Gb LAN x 2, RJ-45 x 2
Audio	Realtek® ALC887
TPM	—
Expansion Slots	M.2 2280 M-Key slot x 1 (PCIe x4 + SATA) M.2 2230 E-Key slot x 1 (PCIe+USB)
BIOS	128Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System Voltage Monitor on Vcore/5V/3.3V/12V Fan Monitor on Chassis
Watchdog Timer	1~255 steps by software program
Smart Fan Control	Chassis Fan
Wake on LAN/PXE	Yes (WOL/PXE)
Power State	S3, S4, S5

### Graphics

Graphics Chipset	AMD Geode™
Graphics Multi Display	CRT, TTL, LCD, LVDS
VGA	Upto 24-bit single channel TTL / LVDS
DVI	—
HDMI	HDMI 1.4 up to 4096 x 2160@24Hz
Display Port	—
LVDS	—
eDP	—
Backlight Control	—

### Environment & Power & ME

Battery	Lithium battery
Power Requirement	DC Power x 1 (DC: 12V~19V, wide range:12V-5%~ 19V+10%)
Operating Temperature	FANLESS : 0°C~40°C, FAN : 0°C~50°C
Storage Temperature	—
Operating Humidity	20%~90% R/H, non-condensing
Certificate	CE & FCC class A
Form Factor	NANO ITX: 4.72" x 4.72" (120mm x 120mm)
Weight	—
MTBF (Hours)	—