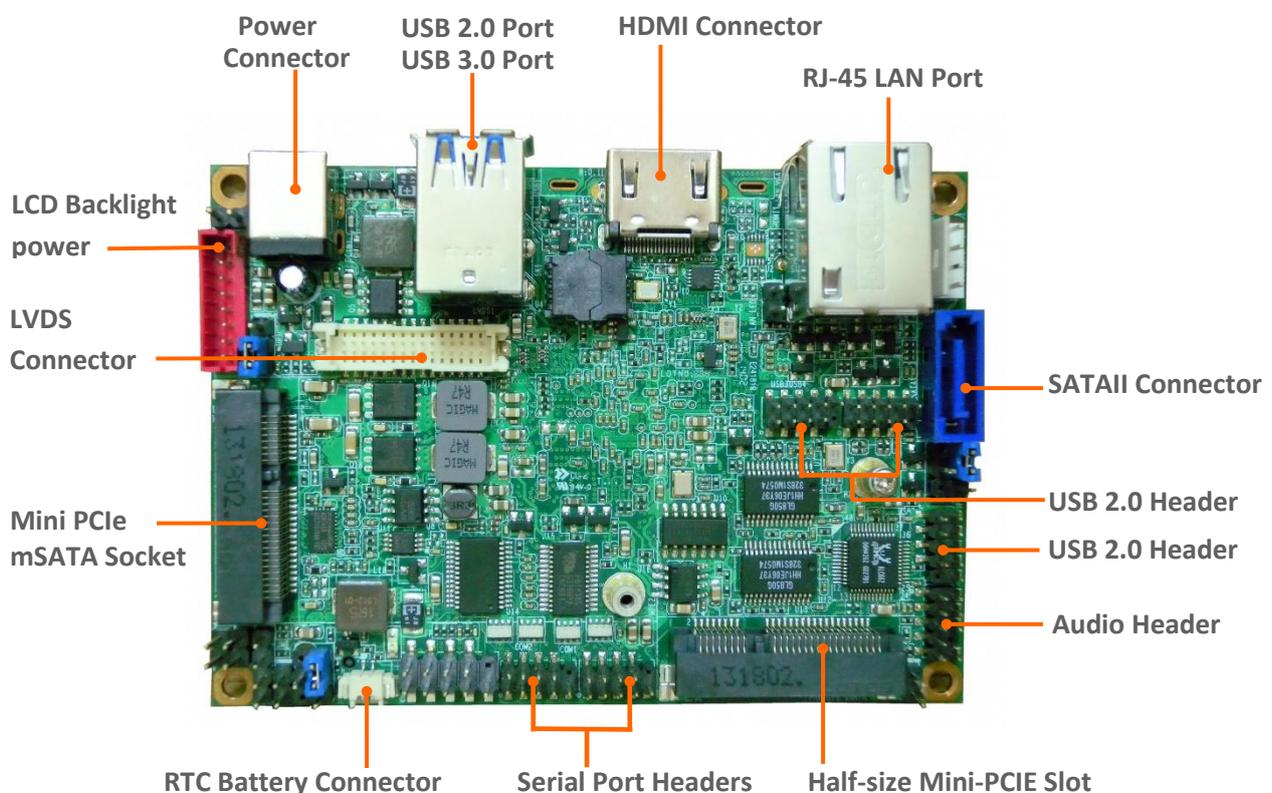


NC-885

Bay Trail Pico-iTX SBC

Datasheet Version 1.4



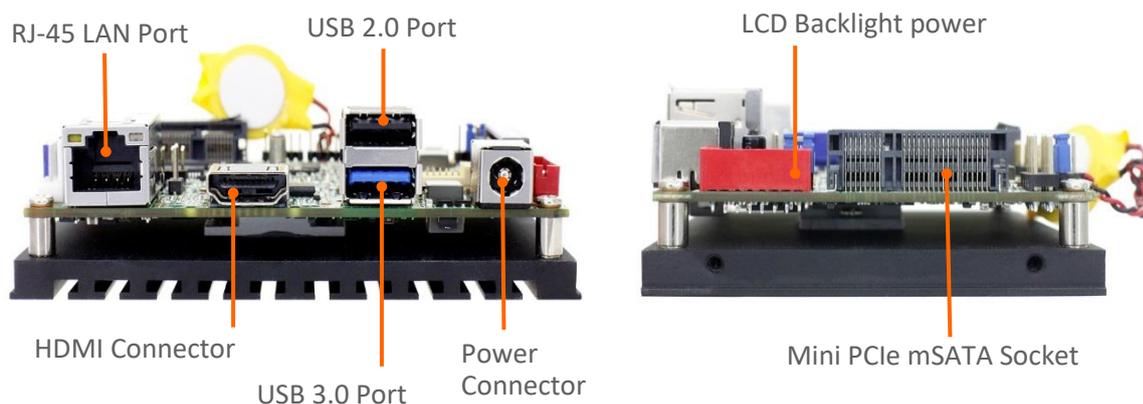
NC-885 is a single-board computer designed for industrial and embedded applications and based on the Intel Bay Trail Pico-iTX processor family.

NC885 is a quad core SBC featuring 2GB RAM and 16GB SSD with a Linux, Windows Embedded Standard 7 or Windows 10 Enterprise LTSB image installed. Its on-board LVDS port allows direct interfacing with a range of TFT panels (See our all in one [Embedded Display Starterkit-N2930 Baytrail Pico](#) for more information). Gbit Ethernet and Intel graphics in a tiny footprint make it an excellent solution for general purpose computing where space is a premium. Its small size, range of supported touchscreen display panels and industrial I/O make it an excellent choice for Industrial HMIs. The board also features a halfsize mini-PCIe which can be used to add WIFI functionality.

System Core, I/O and Mechanical Specification

Feature	Specification
CPU	NC-885N: INTEL Bay Trail 4-core N2930 CPU, 1.86GHz, 7.5W TDP NC-885D: INTEL Bay Trail 2-core N2807 CPU, 1.58GHz, 4.3W TDP NC-885E: INTEL Bay Trail 4-core E3845 CPU, 1.91GHz, 10W TDP (MOQ)
Memory	2GB DDR3L RAM soldered on board, optional 4GB (subject to MOQ)
Power Management	ACPI S3 Compliant, support, Power saving mode
Optional VGA	Integrated 7th Intel Graphics support DX11, OGL3.2, max. 1920x1200 resolution
LVDS	24 bit Dual Channel LVDS, max 1920 x 1200
HDMI	1.4a: max 1920 x 1200
SATA II	1 x SATA II (3GB/s) Device Support 1 x mSATA/mini-PCIe full size mini-PCIe socket
Audio	Realtek ALC662 HD Audio Codec
Ethernet	Realtek RTL8111G Gigabit LAN x 1
USB	7 x USB 2.0 host ports, 1 x USB 3.0 host port
Mini PCIe Socket	1 x mSATA / mini-PCIe full size mini-PCIe socket 1 x half-size mini-PCIe socket
COM	RS-232/422/485 x 1, RS-232 x 1
BIOS	AMI UEFI
Dimensions	100 x 72 mm (Pico-iTX form factor)
Power Input	12VDC-IN
Power Consumption	5W - 10W (depending on load)
Operating Temperature	0°C to 60°C

Diagrams



NC-885 Embedded Display Kit

Starterkit-N2930 Intel Baytrail Pico

The NC-885: Intel Bay Trail Pico-iTX SBC is also available as Embedded Display kit with 7" WVGA, 10.1" WXVGA or 12.1" XGA display and PCAP touch providing a rapid prototyping HMI solution that we can fully customise to meet your system requirements.

Kit content

- 1 x Quick Start Guide
- NC-885N WITH N2930 BAY TRAIL 4 CORE Pico-ITX SBC
- Accessory Package for DX86 range
- Storage: DX86 16GB mSATA 3ME MLC
- PCAP TFT Display of choice between 7", 10.1" or 12.1"
- Display Interface Kit
- Optional content: WIFI Module (Azure) AW-NB159H(OB) 802.11 WiFi B/G/N BT

* other configurations available on request

