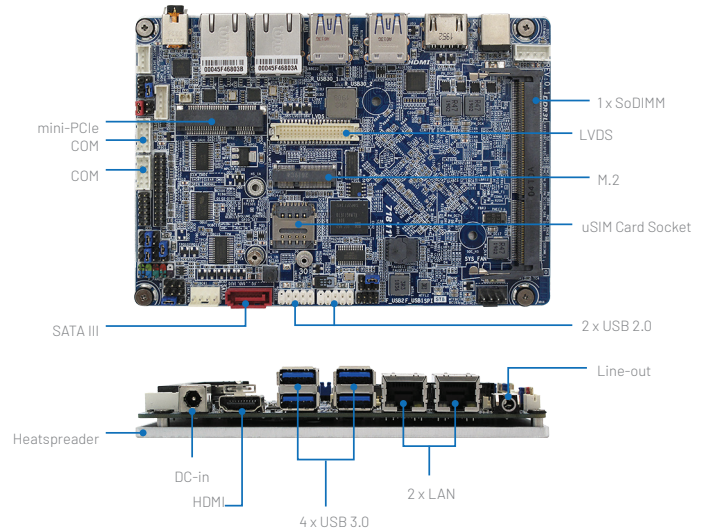


## Features

- Intel® Celeron J3455 Quad Core SoC Processor 1.5 GHz up to 2.3GHz max
- 1 x SODIMM DDR3L 1600MHz up to 8GB
- 32GB eMMC Onboard
- Supports Dual Display: HDMI, LVDS
- Supports Dual LAN
- 1 x M.2, 1 x mini-PCIe with mSATA support & uSIM
- TPM 2.0 Onboard
- HDMI, 18/24-bit LVDS
- 4 x USB 3.0, 4 x USB 2.0
- 2 x COM
- I<sup>2</sup>C, SMBus, GPIO
- 2 x Gigabit LAN
- Fanless Operation with Heatspreader
- 9V-36V Wide Range DC-In

## Specifications

System	
CPU	Intel® Celeron J3455 Quad Core SoC 1.5GHz Base Frequency, 2.3GHz Burst Frequency
System Chipset	SoC
System Memory	1 x 204-pin SoDIMM DDR3L 1600MHz support up to 8GB
BIOS	AMI® UEFI 64Mb SPI BIOS
Watchdog Timer	1-255 Sec. Timer
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
Expansion	1 x M.2 E-Key 2230 1 x Full Size mini-PCIe with mSATA Support & μSIM
Storage	32GB eMMC Onboard
TPM	TPM 2.0 Onboard
Supported OS	Win 10, Linux, Android
Display	
Graphics	Intel® HD Graphics 500 Integrated
LVDS	18/24-bits Dual Channel LVDS
Display	Supports dual display, 2nd display via external HDMI port
Ethernet	
Chipset	2 x Realtek® RTL8111H PCIe Gigabit LAN Controller
Audio	
Chipset	Realtek HD Audio
Amplifier	2 Watts Per Channel Amplifier
External I/O	
HDMI	1 x HDMI
USB	4 x USB 3.1 Gen 1 Type A
LAN	2 x RJ-45
Audio	1 x Line-out
DC-in	1 x DC-In



### Internal I/O

Display	1 x LVDS Header, 1 x Backlight Locking Type Header
USB	2 x USB 2.0 Headers (4 Ports Total)
COM	1 x RS-232/422/485 Header (with Voltage Selection) 1 x RS-232 Header (with Voltage Selection)
I <sup>2</sup> C	1 x I <sup>2</sup> C Header
SATA	1 x SATA III Connectors (Red), 1 x SATA Power Connector
Other	1 x SPI Header, 1 x Front Panel, 1 x 8 bits GPIO, 1 x Cable Type CMOS Battery, 1 x Onboard Buzzer, 1 x SMBus Header, 1 x 4 Pin Chassis Fan Header, 1 x 4 Pin DC-in

### Mechanical & Environment

Power Requirement	9V - 36V Wide Range DC-In
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-20°C ~ 80°C (-40°F ~ 176°F)
Op. & Storage Humidity	5% ~ 90% Relative Humidity, Non-condensing
Form Factor	3.5" Single Board Computer (SBC)
Dimensions	5.7" x 4" (145mm x 101mm)
Weight	0.44lbs (0.2kg)
Certification Information	CE, FCC Class B, UL, RoHS Compliant

### Ordering Info

ECM-3455J	3.5" SBC, Intel® Celeron J3455 2.3GHz Quad Core, 2 LAN, HDMI, LVDS, 1 SATA II, 1 M.2, 1 mSATA/Mini-PCIe, 4 USB 3.0, 4 USB 2.0, 2 COM, GPIO, 32GB eMMC, DC 9V-36V
182000000073	2.00mm pitch 19.7" length dual port serial cable with full height bracket
183000000006	2.00mm pitch 12" length Serial cable
182437200040	2.54mm pitch 14" length Dual port USB cable with full height bracket

\* All product specifications and images are subject to change without notice. Last update: 07/11/2022



**BCM Advanced Research**

11 Chrysler, Irvine, CA 92618 USA  
An industry leader in industrial motherboards & embedded computing

**www.bcmcom.com**

BCMSales@bcmcom.com  
(949) 470-1888