

Features

- Onboard 11th Gen. Intel®Core™ i5-1145G7E BGA Processor
- Full Flat Front Panel with Projected Capacitive Touch supports multi-touch
- One 260-pin SODIMM socket supports up to 32GB DDR4 3200 SDRAM
- 4 x USB3.2, 2 x COM
- Dual Intel Gigabit LAN
- 2 x M.2 Slots (B-Key 2242/3042/3052, E-Key 2230)
- Optional - supports Wi-Fi / BT / 4G / 5G
- Wide Voltage +12V ~ +24V Input, ErP Power
- Expansion available for Audio, USB, COM, HDMI, MPCle, GPIO, CAN Bus
- IP65 Compliant Front Panel, IP41 Rear Box
- Panel Mount kits included
- Optional TPM 2.0
- Fanless Operation from -10°C ~ 50°C (14°F ~ 122°F)



Specifications

System	
CPU	Intel® Core™ i5- 1145G7E (15W, 8M Cache, up to 2.60 GHz)
System Memory	1 x 260-Pin DDR4 3200MHz SODIMM up to 32GB
I/O Chipset	EC ITE IT8528E
Expansion	1 x M.2 B-Key 2242/3042/3052 with SIM card slot Supports SATA III / LTE (4/5G) / NVMe (Optional for PCIe x 2) 1 x M.2 E-Key 2230 Supports PCIe/USB/CNVi Wi-Fi/BT module 1 x 80-pin IET interface
Watchdog Timer	H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
TPM	Optional TPM 2.0
Storage	1 x 2.5" Drive Bay (7mm HDD Restricted)
OS Information	Win 10, Linux
Panel	
LCD Size	15", 4:3
Display Type	XGA
Resolution	1024 x 768
Pixel pitch	0.297mm(H) x 0.297mm(V)
Luminance	300 cd/m ²
Contrast ratio	2000
Viewing angle	88 (U), 88 (D), 88 (L), 88 (R)
Response time	16 ms
Backlight	LED
Touch Type	Projective Capacitive Multi-Touch up to 10 points
Touch Light Transmission	89 %
Touch Controller	USB touch (ILITEK ILI2511, COF)

Display	
Graphic Chipset	Intel® Tiger Lake UP3 SoC integrated Graphics Supports Dual Display (Optional)
Resolution	HDMI: 4096x2160 @ 24Hz (Optional by IET module)
Ethernet	
Chipset	1 x Intel® I225-LM 2.5 Gigabit Ethernet Controller 1 x Intel® I219-LM Gigabit Ethernet Controller
LAN Port	2 x RJ-45
Audio	
Audio Codec	Realtek HD Audio
Speaker Output	2 x 2W
I/O	
USB	4 x USB 3.0
COM Port	1 x RS-232/422/485 1 x RS-232
SATA	1 x SATA III
Other	7 x Knockouts for Antenna Mounting *5 from rear cover + 2 from IET bracket
Power Requirement	
Power Mode	AT/ATX (ATX is the default setting)
DC Input	+12V ~ +24V
Connector	Lockable DC Jack
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter) AC-DC Adapter



Mechanical and Environment

Operating Temp	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temp	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Vibration Test	With SSD/M.2 SSD : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30mins/axis
Shock Test	Operating with SSD/M.2 : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
IP Rating	Front IP65 Rear IP41
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel Mount with mounting kits
System Fan	Fanless
Construction	Front: Die casting with cover lens Back: Black die casting
Certification Information	CE FCC Class B
FCC Class B	13.8" x 10.81" x 2.22" (350.51 x 274.51 x 56.5 mm)
Weight	8.16 lbs (3.7 Kgs)

Ordering Info

ARC-1538-57E-B1-1R	15" 1024x768 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch 11th Gen Intel Core i5-1145G7E 1.50 GHz CPU/2GLAN/2COM/4USB/SPK/12~24V input/19V Adapter
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* All product specifications and images are subject to change without notice. Last update: 12/20/2022



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