EXPC-1519 Series

Zone 2 19-inch panel computers with multiple connectivity options



Features and Benefits

- Anti-scratch, 19-inch, sunlight viewable, 1000-nit LCD panel
- High-performance Intel® processor, Intel® Core™ i7-3555LE or Intel® Celeron® 1047UE CPU
- Fanless design with highly efficient heat dissipation for 70°C environments
- Boots up within 3 minutes at -40°C, without a heater
- Multi-touch, glove-friendly touchscreen interface
- Cable gland and standard USB Type-A/RJ45 connector design
- 4 LAN ports with independent MACs; 2 RJ45 and 2 fiber ST
- Totally sealed IP66/NEMA 4X enclosure
- · Class 1 Division 2, ATEX Zone 2, and IECEx certified
- Dual AC/DC power supply
- · Optional WLAN and TPM module, available by request

Certifications











Introduction

The EXPC-1519 panel computers are designed for indoor and outdoor Zone 2 applications in hazardous environments. The EXPC-1519 Series features a third-generation Intel® Core™ i7-3555LE 2.5 GHz or Celeron 1047UE 1.4 GHz processor, with up to 16 GB of memory to deliver high-performance processing.

The EXPC-1519 Series offers flexible interface connectivity options to meet your application needs: standard connectors with cable glands, terminal block with cable glands, and standard connectors on the bottom panel.

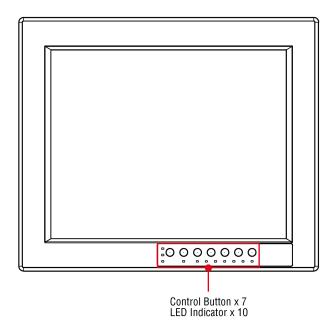
The EXPC-1519 computers support wide-temperature (-40 to 70°C) operation and come with a fanless streamlined enclosure designed for highly efficient heat dissipation, making this one of the most reliable industrial platforms available for harsh, hot outdoor environments like oil and gas fields and drilling platforms.

In addition, the EXPC-1519 computers feature touchscreen controls with anti-reflection treatment and 1000-nit LED backlight, making them easy to read even during peak daylight hours.



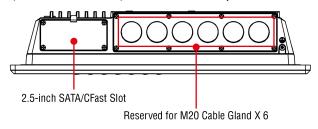
Appearance

Front View



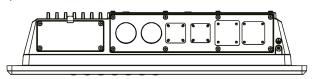
Bottom View

(EXPC-1519-C1-S1-T, EXPC-1519-C7-S1-T, EXPC-1519-C1-S2-T, EXPC-1519-C7-S2-T)

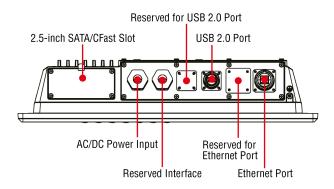


Bottom View

(EXPC-1519-C1-S3-T, EXPC-1519-C7-S3-T)



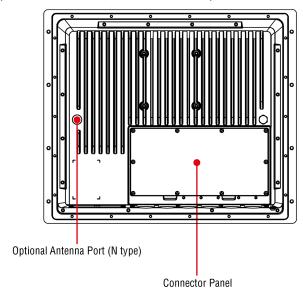
Out-of-the-box view; connectors must be installed by the user

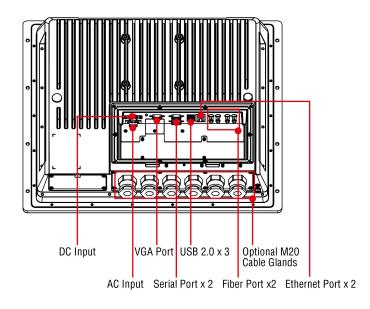


View with connectors installed

Rear View

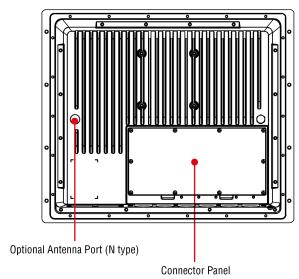
(EXPC-1519-C1-S1-T, EXPC-1519-C7-S1-T)

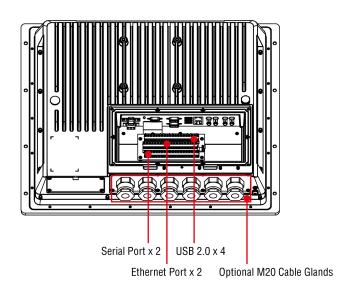




Rear View

(EXPC-1519-C1-S2-T, EXPC-1519-C7-S2-T)

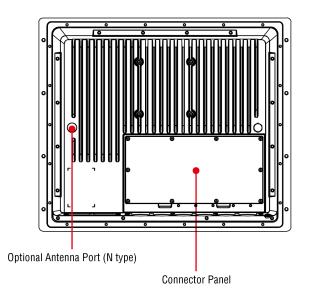


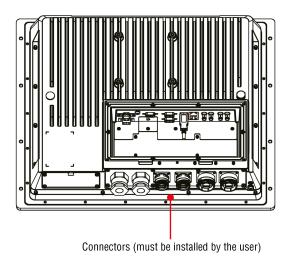


Rear View

(EXPC-1519-C1-S3-T, EXPC-1519-C7-S3-T)







Specifications

CPU	EXPC-1519-C1-x-T: Intel® Celeron® Processor 1047UE (2M Cache, 1.40 GHz) EXPC-1519-C7-x-T: Intel® Core™ i7-3555LE Processor (4M Cache, up to 3.20 GHz)
System Memory Pre-installed	4 GB DDR3/DDR3L
System Memory Slot	SODIMM DDR3/DDR3L slot x 2
Pre-installed OS	OS is not pre-installed
Supported OS	Windows 7 Pro for Embedded Systems Windows Embedded Standard 7 (WS7P) 64-bit Windows 10 Pro 64-bit Windows 10 Embedded IoT Ent 2016 LTSB High End EPKEA Windows 10 Embedded IoT Ent 2016 LTSB Value EPKEA
Storage Slot	2.5-inch SSD slot x 1 CFast slot x 1
Computer Interface	
Ethernet Ports	EXPC-1519-C1-S1-T/C1-S2-T/C7-S1-T/C7-S2-T: Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 2 EXPC-1519-C1-S3-T/C7-S3-T: Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 1
Serial Ports	EXPC-1519-C1-S1-T/C1-S2-T/C7-S1-T/C7-S2-T: RS-232/422/485 ports x 2, software-selectable (terminal block)
USB 2.0	EXPC-1519-C1-S1-T/C7-S1-T: USB 2.0 hosts x 3, type-A connectors EXPC-1519-C1-S2-T/C7-S2-T: USB 2.0 hosts x 4, type-A connectors EXPC-1519-C1-S3-T/C7-S3-T: USB 2.0 hosts x 1, type-A connectors
Video Output	EXPC-1519-C1-S1-T/C7-S1-T: VGA x 1, 15-pin D-sub connector (female)
LED Indicators	
System	Power x 1
Display	
Active Display Area	376.32 (H) x 301.06 (V) mm
Aspect Ratio	5:4
Contrast Ratio	1000:1



Light Intensity (Brightness)	1000 cd/m ²
Max. No. of Colors	16.7M (8-bit/color)
Panel Size	19-inch viewable image
Panel Type	TN
Pixel Pitch (RGB)	0.294 (H) x 0.294 (V) mm
Pixels	1280 x 1024
Response Time	5 ms (gray to gray)
Viewing Angles	170°/160°
Touch Function	
Touch Type	Capacitive Touch (PCAP)
Touch Support Points	4 points
Glove Support	Yes
Serial Interface	
Baudrate	50 bps to 115.2 kbps
Data Bits	5, 6, 7, 8
Flow Control	RTS/CTS, XON/XOFF, ADDC® (automatic data direction control) for RS-485, RTS Toggle (RS-232 only)
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 2
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
Power Parameters	
Input Voltage	100 to 240 VAC, 24 VDC
Physical Characteristics	
Housing	Metal
Dimensions	483 x 408 x 99.5 mm (19.02 x 16.06 x 3.92 in)
Weight	12,700 g (28.00 lb)
Environmental Limits	
Environmental Limits Operating Temperature	-40 to 70°C (-40 to 158°F)
	-40 to 70°C (-40 to 158°F) -40 to 70°C (-40 to 158°F)



EN 55032/24
CISPR 32, FCC Part 15B Class A
IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
IEC 60068-2-1, DNV-CG-0339 IEC 60068-2-2, DNV-CG-0339 IEC 60068-2-2, IEC 60945 IEC 60068-2-30, IEC 60945
ATEX, Class I Division 2, IECEx
EN 60950-1, IEC 60950-1, UL 60950-1
IEC 60068-2-27
IEC 60068-2-6, IEC 60068-2-6, IEC 60945, IEC 60068-2-64, DNV-CG-0339
Rohs, Crohs, Weee
LCD: 1 year System: 3 years
See www.moxa.com/warranty
1 x EXPC-1519 Series computer
2 x cable gland connector 1 x connector, female, for RJ45 (EXPC-1519-C1-S3-T/C7-S3-T) 1 x connector, female, for USB (EXPC-1519-C1-S3-T/C7-S3-T) 1 x storage installation kit 1 x terminal block, 2-pin, for DC power input 1 x terminal block, 3-pin, for AC power input

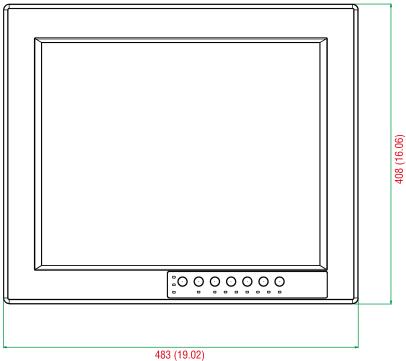
1 x quick installation guide 1 x warranty card

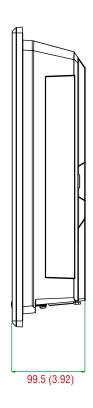


Documentation

Dimensions

Unit: mm (inch)





Ordering Information

Model Name	Panel	CPU	RAM	LAN	Serial	USB 2.0 Ports	Video Outputs	Interface	Power Input	IP Rating	Operating Temp.
EXPC-1519- C7-S1-T	19" (5:4) 1,000 nits	i7-3555LE	4 GB	2	2	2	1 x VGA	Cable gland, standard I/O	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C
EXPC-1519- C7-S2-T	19" (5:4) 1,000 nits	i7-3555LE	4 GB	2	2	4	1 x VGA	Cable gland, terminal block	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C
EXPC-1519- C7-S3-T	19" (5:4) 1,000 nits	i7-3555LE	4 GB	1	-	1	1 x VGA	Rugged connector	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C
EXPC-1519- C1-S1-T	19" (5:4) 1,000 nits	Celeron 1047UE	4 GB	2	2	2	1 x VGA	Cable gland, standard I/O	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C
EXPC-1519- C1-S2-T	19" (5:4) 1,000 nits	Celeron 1047UE	4 GB	2	2	4	1 x VGA	Cable gland, terminal block	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C
EXPC-1519- C1-S3-T	19" (5:4) 1,000 nits	Celeron 1047UE	4 GB	1	-	1	1 x VGA	Rugged connector	24 VDC 100-240 VAC	IP66 (completely sealed)	-40 to 70°C

Accessories (sold separately)

Panel Mounting Kits

EXPC-1519-PMTK EXPC-1519 Panel Mounting Kit EXPC-1519-handle EXPC-1519 Handle Kit

Desktop Mounting Kits

EXPC-1519-DMTK EXPC-1519 Desktop Mounting kit

Wall-Mounting Kits

EXPC-1519-WMTK

EXPC-1519 Wall Mounting Kit

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