Technical Specifications

1. Advantech PCIE-1813-AE

Qty: 3 Sets

Sl.NO	Parameters	Specifications	Suppliers Compliance
		Analog Input Overview	
1	Channels	4 or more	
2	Resolution	24 bits or better	
3	Sample Rate	38.4 kS/s max. simultaneous or better	
4	Input Ranges	±10 V, ±5 V, ±2.5 V, ±1.25 V, ±625 mV, ±312.5 mV	
5	Accuracy	±0.01% of FSR or better	
		Analog Output	
6	Analog Channels	2 or more	
7	Resolution	16 bits or more	
8	Output Rate	3 MSPS max	
9	Accuracy	±0.01% of FSR	
		Analog Trigger	
10	Channels	2 or more	
11	Resolution	16 bits	
12	Input Range	-10 V ~ +10 V	
13	Hysteresis	Yes.	
14	Trigger Edge	Rising edge or falling edge, selected by software	
		Digital Trigger	
15	Channels	2	
16	Input Voltage	Logic 0: 1.5 V max. Logic 1: 3.5 V min.	
17	Trigger Edge	Rising edge or falling edge, selected by software	
		Digital I/O	
18	Channels	32 (shared)	
19	Input Voltage	Logic 0: 1.5 V max. Logic 1: 3.5 V min.	
20	Output Voltage	Low 0.5 V max.@ +20 mA (sink) High 4.5 V min.@ -20 mA (source)	
		Counter/Timer/Encoder Counter	
21	Channels	4	
22	Resolution	32 bits	
23	Input/Output Voltage	Same as that for digital I/O	
24	Max. Input Frequency	10 MHz	
		General	
25	Form Factor	PCI Express x1	
26	I/O Connector	100-pin SCSI female ribbon-type connector	
27	Operating Temperature	0 ~ 60 °C (32 ~ 140 °F) (refer to IEC 68-2-1, 2)	
28	Storage Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	

Accessories required

Part No.	Description
PCL-101100R-1E	100-pin SCSI shielded cable, 1 m

ADAM-39100-BE	100-pin DIN rail SCSI wiring board

Part List:

Part No.	Description
PCIE-1813-AE	38.4 kS/s, 26-bit, 4-ch, simultaneous sampling, universal bridge input, multi-function PCI Express card

2. Advantech UTC - 515H

Qty: 2 Sets

Sl.NO	Parameters	Specification	
Processor System			
1	CPU	Intel® Core™ i3-8145UE (UTC-515H) or latest	
2	Base Frequency	2.20 GHz (i3-8145UE/Dual-Core) or more	
3	Cache	L3 Cache 4MB or more	
4	Memory	1 x 260 pin SO-DIMM DDR4 2400 MHz 4GB or more	
5	Network (LAN)	2 x Gigabit Ethernet Ports, Intel I210IT; Intel I219LM (supports Wake on LAN)	
6	I/O ports	2 x RS-232 COM (RS-422/485), 4 x USB 3.1,2 x Gigabit Ethernet (RJ-45),1 x HDMI,1 x Audio Line-out,1 x Mic-in	
7	Bus expansion	1 x M.2 E-key 2230,1 x M.2 B-key 2280 (NVMe PCIe x 4) / M.2 B-Key 3042 LTE module supports USB 2.0 only (optional), M-key 2280 NVMe PCIex4	
8	OS Support	Win 10 IoT Enterprise	
	Power Supply		
9	Input Voltage	12VDC	
10	Power consumption	Typical 35W , Max. 40W	
	LCD Display		
11	Size/Type	15.6" TFT LCD with LED backlight	
12	Max. Resolution	1366 x 768 (FHD 1920 x 1080 Optional)	

Part List

Part No.	Description
UTC-515H-PE	15.6" 9H PCT.T/S with Intel Core i3-8145UE, 8GB RAM, IT Adapter
1700018704	Power Cord UK BSI 2P 10A 250V 180cm 18AWG
1960060674N001	IO Cover for UTC-515 series

Peripherals for UTC

Part No.	Description
UTC-P01-A1E	5M Camera Module For UTC-5XX (USB connection)
UTC-WIFI-A5E	AIW-163BR 802.11ax with BT5.2, PCIe-USB, Realtek 8852BE, M.2 2230

Terms and Conditions:

1. All the supplied hardware-software items should strictly match the manufacturer part number and associated software

2. All the above-mentioned specifications are essential unless otherwise mentioned as "Specify."

3. All the hardware modules are to be pre-calibrated at the OEM's place, and an appropriate certificate is to be provided along with the hardware components.

4. All software-hardware items are to be delivered at CMTI within 4-6 weeks from the date of the Purchase Order.

5. All necessary accessories, power adapters, connection adapters and tools are to be included in the quotation supplied along with the item.

6. Installation and commissioning of hardware-software items in vendors' scope and necessary tech support to be guaranteed by the OEM directly or through its Authorized Partner

7. All additional modules (Optional but not essential for the operation of the instrument) required for operation and analysis should be quoted as optional supplied along with the item in the case of inclusion in the PO

8. Calibration and quality check certifications are to be supplied along with the item.

9. An unconditional warranty of 1 year on supplied items must be provided. 3-year warranty to be included as optional.

10. Payment terms: 80% with the order and 20% after delivery, installation and acceptance or 100% after delivery installation and satisfactory inspection within 30 days of delivery.

11. The vendor shall submit their quote in INR, preferably and also should submit a certificate stating that 20% of the local content contribution is present in the supplied item.