

BIL/ No	KETERANGAN BARANG DAN PERKHIDMATAN/ Description of Items and Services	BANYAK / Quantity	HARGA SEUNIT / Price Per Unit	JUMLAH/ Total
	SUPPLY, DELIVERY, COMMISSIONING AND TESTING GNSS SYSTEM: R780 MODEL 2 FOR GEODETIC SECTION; SURVEY DEPARTMENT			
1.	To Supply, delivery, commissioning and testing of R780 Model 2 with the following features: -	2 SETS		
	PHYSICAL HARDWARE: - - Dimensions (W×H) 13.9 cm × 13 cm (5.5 in × 5.1 in) including connectors - Weight 1.4 kg (3.08 lb) receiver only, no radio model 1.44 kg (3.17 lb) receiver only, radio model 1.55 kg (3.42 lb) total weight including battery and UHF antenna - Temperature - Operating -40 °C to +65 °C (-40 °F to +149 °F) - Storage -40 °C to +75 °C (-40 °F to +167 °F) - Humidity 100%, condensing - Ingress protection IP68 - Certified per IEC-60529: waterproof/dustproof (1 m submersion for 1 hour) ELECTRICAL - External - External power input with over-voltage protection on Port 1 (7-pin Lemo 2-key) Minimum 10.8 V, Maximum 28 VDC, shutdown optimized for 12 V lead acid battery operation - Power source supply (Internal/External) is hot-swap capable in the event of power source removal or cut off			

	▪ DC external power input with over-voltage protection on Port 1 (Lemo) ▪ Receiver automatically turns on when connected to external power ○ Battery ▪ Rechargeable, removable Lithium-ion battery in internal battery compartment ▪ Internal battery operates as a UPS during an ext power source failure ▪ Internal battery will charge from external power source as long as source can support the power drain and is more than 11.8 VDC ▪ Integrated charging circuitry ○ Power consumption ▪ 3.8 W in rover mode with internal receive radio ▪ 4.0-5.3 W in base mode with internal transmit radio ○ Operating times on internal battery ▪ Rover • 450 or 900 MHz receive 5.5 hours; varies with temperature ▪ Base station • 450 MHz transmit Approximately 3.5-5 hours; varies with temperature • 900 MHz transmit			
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	Approximately 3.5 hours; varies with temperature GNSS TECHNOLOGY: - • Constellation agnostic, flexible signal tracking, improved positioning in challenging environments and inertial measurement integration with Trimble ProPoint® GNSS technology • Increased measurement and stakeout productivity and traceability with Trimble Inertial Platform™ (TIP™) technology IMU-based tilt compensation • Trimble CenterPoint® RTX correction service is activated and ready to use for the initial 12 months. • Advanced dual Trimble Maxwell™ 7 chipset technology with 672 channels • Trimble EVEREST™ Plus multipath signal rejection • Trimble IonoGuard™ technology for mitigation of ionospheric GNSS signal disruptions • Spectrum Analyzer to troubleshoot GNSS jamming • Anti-spoofing capabilities • Supports Trimble Internet Base Station Service (IBSS) for streaming RTK corrections using Trimble Access™ 2023.10 or later • Japanese LTE Filtering below 1510 MHz allows antennas to be used 100 m away from Japanese LTE cell tower • Iridium Filtering above 1616 MHz allows the antenna to be used 20m away from Iridium transfer			
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SATELITE TRACKING: -

- GPS: L1C, L1 C/A, L2E (L2P), L2C, L5
- GLONASS: L1C/A, L1P, L2C/A, L2P, L3
- Galileo: E1, E5A, E5B and E5AltBOC, E62
- BeiDou: B1, B2, B3, B1C, B2A, B2B
- QZSS: L1 C/A, L1C, L1S, L2C, L5, LEX/L6
- IRNSS: L5
- SBAS: L1 C/A (EGNOS/MSAS GAGAN/SDCM), L1 C/A and L5 (WAAS)
- L-Band: Trimble RTX®

**** EACH R780 Set shall be inclusive of: -**

- **Field Data Controller TDC6**
 - TDC6 Pole Clamp with Magnet Mount
 - TDC6 Device Bracket with Magnetic
- **Dual Slot Battery Charger**
 - UK 3-pin power cord suitable for Brunei Darussalam power outlets (240V, 50Hz).
- **2.0m Carbon Fiber Range Pole with Bipod**
- **Trimble Access GNSS - General Survey; Perpetual License**
- **Survey Tribrach with Optical Plummet**
- **Weatherproof Equipment Transit Case**
 - Hard-shell case, minimum IP67-equivalent weatherproofing.
 - Custom pre-cut foam inserts (pick-and-pluck or die-cut) to securely accommodate complete receiver kit including:
 - GNSS receiver
 - Field controller
 - Tribrach
 - Spare battery
 - Dual charger.

	Minimum internal dimensions: 500 mm (L) × 380 mm (W) × 200 mm (H). Carry handle and secure latch closure.			
	*[KINDLY SEE ATTACHMENT] * **Note** i. Supplier to provide minimum 12-month warranty on all hardware from date of signed UAT. ii. Warranty to cover all hardware faults under normal operating conditions. iii. Supplier to provide response time commitment for warranty claims (acknowledgement within 2 working days; replacement or confirmed repair timeline within 7 working days). iv. The price shall inclusive with shipping/tax or others that related to make sure the arrival of the items. v. The price stated in this quotation shall be fixed within the validity of the quotation.			
JUMLAH / Total				
JUMLAH DALAM PERKATAAN / Total Amount in Words				
TEMPOH PENYIAPAN PERKHIDMATAN / PEMBEKALAN / PENGHANTARAN <i>Duration of Service/ Supply / Delivery</i>				
SAHLAKU SEBUTHARGA / Price Validity				
Nota: Sila isikan TARIKH tempoh sahlaku/ Note: Please specify the validity period DATE.				

Nota/Note: Untuk Kegunaan Pejabat Sahaja / For Official Use Only:

Nombor Siri Sebutharga: ____ / ____	Sebut harga dibuka oleh: _____ _____ _____ _____ _____ Tarikh: _____
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ATTACHMENT

2 m Carbon Fiber Range Pole with Bipod



Fixed height two part, 2 meter, carbon fiber range pole with bipod and carry bag.

P/N: 43169-00

Tribrach with Optical Plummet



For prisms, targets or GNSS setups.

P/N: 58002007

Rechargeable Battery (7.27V, 3350 mAh)



Lithium-ion battery for use with Trimble R780-2, R780, R580 and R2 GNSS receivers and with MT1000 and AT360 targets, and Trimble DiNi[®] levels.

P/N: 192670-02

Dual Slot Battery Charger with Power Supply and Power Cord



Dual-slot battery charger (109000-10) with power supply and cord for Trimble optical instrument batteries (99511-30), Trimble GNSS receiver batteries (176767 and 192670-02), and the Trimble Li-35 removable battery (220200).

P/N: 101075-00-XX*

*XX denotes power cord region:

01 = North America

04 = Europe

23 = Taiwan

12 = Australia

02 = Japan

06 = UK

10 = China

Transport Case—Trimble R780
GNSS Smart Antenna



Transport case
for Trimble R780
smart antenna.
P/N: 55100-31-GEO

R780 Model 2

GNSS SYSTEM

The Trimble® R780 GNSS receiver allows you to choose your configuration and scale up by adding additional features. With robust GNSS positioning technologies, trust this ultra-durable receiver to boost your productivity and flexibility in any environment.



TDC6 handheld

Data Collectors



Screen Protector



Glass Screen Protector for the Trimble TDC6 handheld (3 pack).
P/N: 125513-10-GEO

Device Bracket with Quick Release



Device bracket with tapered quick release for the Trimble TDC6 handheld.
P/N: 125520-GEO

Pole Clamp with Quick Release Socket



Use with the Trimble TDC6 handheld device bracket with tapered quick release.
P/N: 119696-GEO