



DESIGNING  
INNOVATION

Transversal 93 No.53-48 int. 98  
Bogotá D.C. Colombia  
Tel. (57 1) 434-3500

[eng@didrone.com](mailto:eng@didrone.com)

| COTIZACION   |                                  |              |                        |
|--|----------------------------------|--------------|------------------------|
| <b>Señores</b>   | UNIVERSIDAD DEL TOLIMA           | <b>No.</b>   | <b>COT-09092021-00</b> |
| <b>Att:</b>  | Héctor Santacruz                 | <b>Date:</b> | 9/09/2021              |
| <b>Dirección</b>   | Universidad de Nariño 3046767544 |              |                        |
| <b>email:</b>  | unatv@udenar.edu.co              | <b>Fax:</b>  |                        |
| Agradecemos a ustedes, la oportunidad que nos brindan, para presentar la siguiente oferta: |                                  |              |                        |
|  |                                  |              |                        |

| Item | Ref.                         | Description  | Qty | Unit.\$ COL.  | Total \$ COL. |
|------|------------------------------|--|-----|---------------|---------------|
| 1    | TX TV TDT CH 26 - TO 250 W   | <p><b>TX TV TDT - DVB T2</b></p> <p>Conector 7/16 Single 230 Vac <math>\pm</math> 15%. Multistandard: ATSC (including ATSC3.O), ISDB-T, DTMB, DVB-T/T2, Analog. 2x ASI with Hitless switch, 2x IP Ethernet, A/V for analog broadcasting.</p> <p>The most advanced manual, Automatic and Adaptive Linear and Non-Linear Pre-corrector. Fully frequency agile without need for any tuning or trimming.</p> <p>ON Board GNSS receiver (GPS, GLONASS, BEIDU, GALILEO).</p> <p>USB input to fast save/load configurations. Amplifier equipped with No. 3 Hot Pluggable power supplies.</p> <p>Overall efficiency up to 44% with highest performances in terms of MER, BER and shoulders. Independent temperature controlled low-noise fans. Use of tools is reduced almost to zero including pallets replacement.</p> <p>Remote control via SNMP, friendly web browser GUI, no need of plug-in or apps, dry contacts.</p> <p>Work in Pasto con TS – Link TS</p> | 1   | \$68,150,000  | \$68,150,000  |
| 2    | OUTPUT FILTERS CH 26         | <p><b>6 poles</b></p> <p>Dual Cross Coupling<br/>Full-Band Tunability<br/>Temperature Stabilization<br/>DC-Short<br/>Output Monitor Probe<br/>Modular Connector System<br/>10 Year Warranty<br/>DVB T2 Terrestrial<br/>6 – Pole dual Cross 80mm<br/>Frequency Range 470-862 MHz / 6-8 MHz<br/>Max Temperature 65 oC</p>  | 1   | \$9,450,000   | \$9,450,000   |
| 3    | Encoders & Mux (Master Site) | <p>1RU Frame: two AC PSU, two external reference looping BNC inputs, one controller (one RJ45 for control monitoring, two RJ45 for redundant data), includes control panel</p> <p>MPEG-2/H.264 Standard Encoder Hardware. Includes video coding, up to four stereo pairs of audio</p>  | 1   | \$185,550,000 | \$185,550,000 |

compression, single back module with HD-BNC connectors for SDI in/out, ASI out, AES (unbalanced) in, socket/plug for GPI in/out and serial data connections. Must select software model key to enable functions

Software DVB supporting MPEG-2/H.264 SD/HD, 4:2:0 video with preprocessing and the following audio support: MPEG-1: 8x2.0 SMPTE 302: 8x2.0 Externally Compressed AC-3: 8 Services. for additional AC-3 services SELOPT-SK-EN-DDE key is required. for additional AAC services the SELOPT-SK-EN-AAC key is required

Software supporting audio only encoding with the following audio support; MPEG-1: 8x2.0 SMPTE 302: 8x2.0. for Dolby AC-3 services SELOPT-SK-EN-DDE key is required. for AAC services the SELOPT-SK-EN-AAC key is required

MDX2, MPEG-2 Transport Stream Multiplexer/Demultiplexer, 2 in/out dependent on software feature key, configurable for SMPTE 310 or DVB-ASI. Back module with HD-BNC connectors (8 ASI ports) and 10 MHz and 1 PPS inputs. Requires software model key

MDX2, Software model key, DVB transport stream multiplexer/demultiplexer configuration

MDX2, Software Key Option for DVB-T2 Gateway Functionality, includes one PLP, up to seven additional PLPs can be added (additional licenses required). Requires SEL-SK-M2-DVB software model key

MDX2, Software keyed option to select 4 in/out channels (adds 2 channels)

MDX2, Software keyed option for one additional PLP license  
software model key

MDX2, Software model key, DVB transport stream multiplexer/demultiplexer configuration

MDX2, Software Key Option for DVB-T2 Gateway Functionality, includes one PLP, up to seven additional PLPs can be added (additional licenses required). Requires SEL-SK-M2-DVB software model key

MDX2, Software keyed option to select 4 in/out channels (adds 2 channels)

MDX2, Software keyed option for one additional PLP license

|              |                                  |  |   |              |                      |
|--------------|----------------------------------|--|---|--------------|----------------------|
| 4            | SISTEMA RADIANTE                 | <b>SISTEMA RADIANTE:</b> 2 Panel de UHF, Polarización Horizontal. Conector DIN 7/16 hembra, radomo rojo. Latiguillo LCF 1/2" (dieléctrico foam) bajas pérdidas de inserción, conectores DIN 7/16 macho, longitud aprox. 6 metros, ajustado en fase de acuerdo con el proyecto de diseño Distribuidor de UHF, simétrico en potencia y fase, 8 vías, entrada EIA 7/8" flange hembra, salidas DIN 7/16 Herraje distribuidor a tubo 80 - 115 mm Grapa para cable de 1/2", incluyendo adaptador a angular Cinta de autovulcanizado Cinta de sellado | 1 | \$19,350,000 | \$19,037,556         |
| 5            | CABLE COAXIAL Y ACCESORIOS       | <b>Cable coaxial dieléctrico foam</b> LCF 7/8" (Metros) Conector EIA 7/8" macho para cable LCF 7/8" Grapa para cable de 7/8", incluyendo adaptador a angular Malla de Izado para cable LCF 7/8" Toma de tierra para cable LCF 7/8" Pasamuros cable LCF 7/8"  | 1 | \$13,870,000 | \$13,870,000         |
| 6            | Solución de EPG y Teletexto      | Licencia Base EPG Server DVB<br>Licencia de salida de datos UDP/IP<br>Licencia de Tablas DVB-SI para 1 servicio Licencia de EPG XML Editor<br>Licencia de EPG DVB para 1 servicio Licencia de Teletexto para 1 servicio. Puesta en marcha y entrenamiento remoto<br>Soporte y actualización SW, anual y remoto   | 1 | \$44,555,000 | \$44,555,000         |
| 7            | RACK 16 UR                       | RACK 16 UR Metálico instalados en sitio con SPT  | 2 | \$900,000    | \$1,800,000          |
| 8            | UPS 3KVA ESTANDAR EUROPEO 220VAC | True On Line doble conversión con Autonomía de CINCO (5) MINUTOS A PLENA CARGA, Estándar Europeo, acondicionada para operar a 220VAC de Entrada (2 Fase + Tierra) y 220VAC de Salida (2 Fase + Tierra), 100% microcontrolada, frecuencia 60Hz..  | 1 | \$2,890,000  | \$2,890,000          |
| 9            | UPS BIFÁSICO 6KVA                | True On Line doble conversión con Autonomía de DIEZ (10) MINUTOS A PLENA CARGA, Bifásica de Entrada (2 Fases + Tierra) y Salida (2 Fases + Neutro + Tierra), 220VAC, 100% microcontrolada, frecuencia 60Hz   | 1 | \$6,980,000  | \$6,980,000          |
| 10           | Enlace Opcional                  | Enlace de datos de alto rendimiento para envío de TS desde el Gateway al TX Opcional en banda Libre, cableado y puesta en servicio.  | 2 | \$9,370,000  | \$18,740,000         |
| 11           | PC EPG + Subtitulacion           | <b>PC EPG: - Plataforma x86/x64</b><br><br>- CPU: Intel Core processor (i5 o superior)<br>- RAM: 8GB (ó superior / or greater)<br>- HDD: RAID 1 con 2 discos SATA internos de 500GB<br>- 2 puerto Ethernet Gigabit copper<br>- Al menos 1 puerto USB (2.0) (dongle)<br>- 1 Fuente de alimentación simple<br>- Gabinete para rack con guías deslizantes<br>- Sistema Operativo: Microsoft Windows 7/10 Professional   | 1 | \$4,050,000  | \$4,050,000          |
| SUB-total    |                                  |  |   |              | \$375,135,000        |
| IVA          |                                  |  |   |              | \$71,275,650         |
| <b>TOTAL</b> |                                  |  |   |              | <b>\$446,410,650</b> |

**Condiciones Comerciales**

**Precios** en \$ pesos colombianos para entrega en instalaciones de la universidad del Nariño

**Tiempo de entrega:** 7 a 9 semanas, una vez recibido el anticipo. Tiempo de instalación 5 a 6 días (incluida)

**Forma de pago:** 50% a la orden de compra. 50% a la entrega de las partes.

**Garantía:** 1 año contra defectos de fabricación.

**Validez de la oferta:** 15 días.



LUISA GIL

GERENTE ADMINISTRATIVA