



  
DAAU

Digitizer+ANAR Acquisition Unit

دییجیٹایزر + اِن اِکویسٹن اِنیٹ

دیجیتایزر/دیتالاگر DAAU یک محصول بومی دانش بنیان ساخت شرکت انار است. طراحی مدار و انتخاب سخت افزارهای مناسب و کارا و نیز تهیه نرم افزار رابط کاربر و تست های سخت گیرانه سخت افزاری و نرم افزاری، همگی توسط متخصصان باتجربه این شرکت صورت پذیرفته اند. این محصول قابلیت انعطاف زیادی در اغلب زمینه ها دارد. در حال حاضر نسخه ۳۲ بیتی آن با مشخصات زیر آماده ارائه به متقاضیان جهت انجام تست های مورد نظر می باشد:

- **3-channels low-noise 32-bit ADCs ( $\Delta-\Sigma$ )**
  - Multiple concurrent data rates (up to 4000 sps – optional)
- **Embedded Linux OS**
- **Web browser user interface**
- **IP communication**
- **two extracted data format (ASCII, MiniSeed, (GCF – optional))**
- **Sensor input:**
  - Maximum input voltage range: 40 V peak-to-peak differential
  - Input impedance: > 9M $\Omega$  (for passive sensor)
  - Sensor control commands: Remote lock, unlock, center
  - Sensor type: both active and passive sensors (compatible with Guralp sensors and can be customized for all other sensors)
- **Storage media: SD card (default 64 G) (removable media – optional)**
- **Operating temperature: -30 to +60 °C**
- **Power supply: Low power, <5W @ 12VDC (12-36 VDC)**
- **Timing:**
  - Timing system Internal DCX0 clock disciplined to GPS
  - GPS receiver Internal 12 channel receiver
- **Dynamic Range: > 134 dB @ 50 sps**
- **Continues Recording: Selectable 50, 100, 200 samples/sec./channel with anti-alias filtering**
- **Selectable gain Unity (input voltage range):  $\pm 5$  V,  $\pm 10$  V,  $\pm 20$  V**
- **Input voltage (digitizer and power), humidity, and temperature monitoring**
- **Communication Module**
  - Via Ethernet, Console (Telnet)
  - RS-232 for direct and remote connection (Firmware debug)
  - Real-time data via SEEDLink, compatible ORB server
- **Instrument firmware**
  - User-friendly configuration based on an internal static IP address (access via internet explorer)
  - Type: Multi-tasking operating system supports simultaneous acquisition and interrogation; allows remote and automatic firmware upgrades via LAN and Serial port.
  - Security: Supports SSH
  - System control: Configure sample rate, filter type, trigger type, and voting, maintains communications and event storage
  - Auto-diagnostics and SOH file: Continuously check system voltages, temperature, humidity, and timing system integrity and auto SOH file containing station info, instrument info, GPS info, triggered event information, power status, channel offset, connections, storage
- **Trigger setting**
  - IIR band pass filter
  - Independently selected for each channel
  - STA/LTA, Time Window