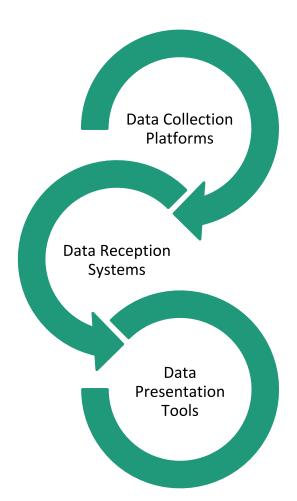


Complete Data Solutions



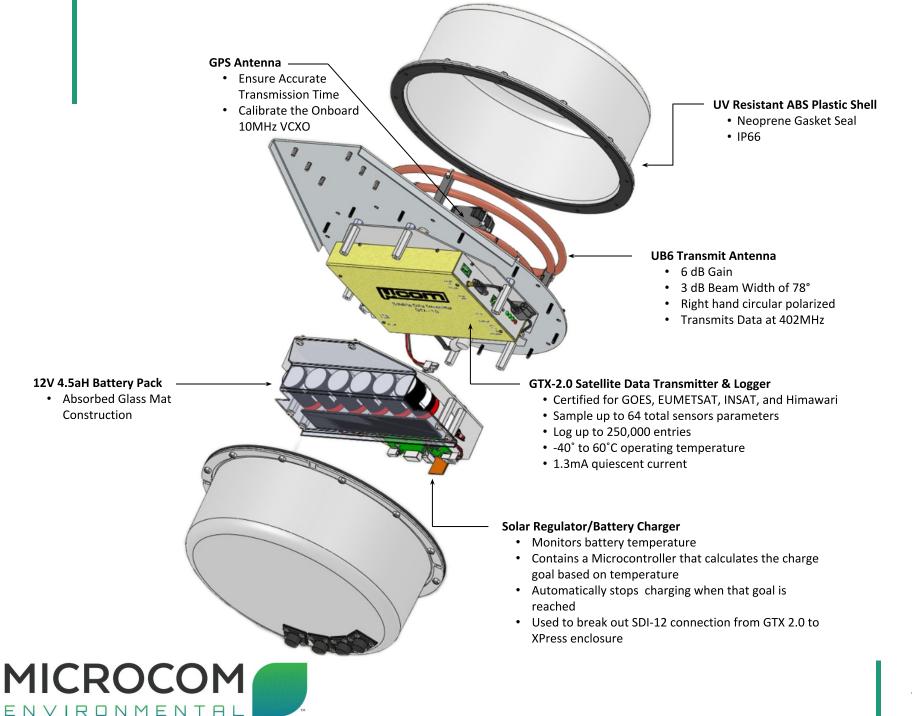


The XPress

- Fully integrated GOES DCS Data Collection Platform
 - GTX-2.0 Satellite Data Transmitter & Logger
 - UB6 Satellite Transmit Antenna
 - 5 Watt Solar Panel
 - GPS Antenna
 - Internal Battery Pack
 - Solar Regulator
- Lightweight
- IP66 Enclosure
- Mounting & Solar Panel options available
- Extremely cost-effective







Long-Term Deployment

- Quick & easy set-up
- Cost-effective & versatile mounting options for various applications
- Replaces the need for gage houses and enclosures









Seasonal Deployment

- Monitor rivers impacted by snow melt in spring and early summer
- Change sensors and monitor drought and fire conditions in summer and fall







Rapid Deployment

- Additional monitoring in anticipation of extreme weather and flooding
- Post-flooding & post-wildfire monitoring
- Temporary replacement for destroyed DCPs after extreme weather

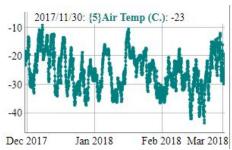




Extreme Applications

- 7 XPress units deployed in Yellowknife, Canada for the De Beers Mining Company to monitor lake water levels
- All 7 continue to operate in constant sub -20°C, heavy snow, and limited sunlight during the winter months









Extreme Applications

- Over 75 XPress units were deployed throughout Florida for the Florida Department of Transportation to monitor wind speed/direction and other sight specific parameters
- 26 units deployed throughout the Florida Keys during Hurricane Irma
 - Recorded wind gusts of up to 140 mph.
- 50 units deployed throughout the Florida Panhandle during Hurricane Michael
 - Recorded wind gusts of up to 208 mph





Configuring the XPress

- The XPress has 4 external connectors
 - Solar Power, RS-232, & 2 SDI-12/Tipping Bucket connectors
- The XPress can be configured using the provided RS-232 cable and GTX Utility software
 - The GTX Utility is provided with all units and can be downloaded on the GTX webpage
 - Tutorials on using the GTX Utility can be found on Microcom Environmental's YouTube Page





SDI-12 Interfaces

- The XPress utilizes SDI-12, but Microcom offers SDI-12 interfaces for all other common sensor data communications protocols
- All SDI-12 Interfaces can be packaged in NEMA IP66 enclosures
- Microcom also offers the XTend, an additional sensors breakout interface

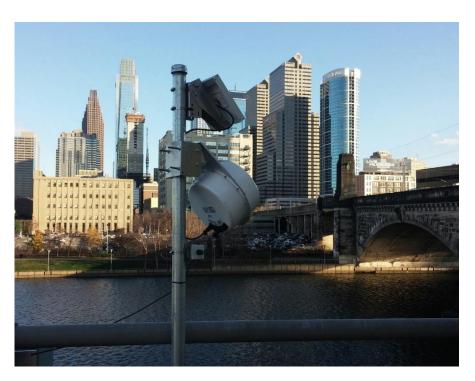






Mounting

- Stainless Steel U bolt (1 3.5" diameter poles)
- Stainless Steel V bolt (1 3.5" diameter poles)
- Stainless Steel Band-it Clamps for larger poles and towers

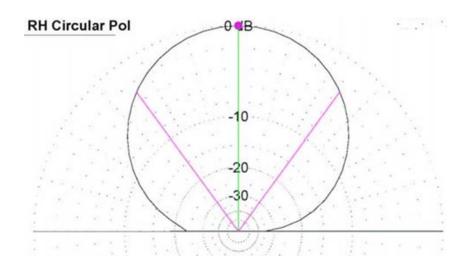


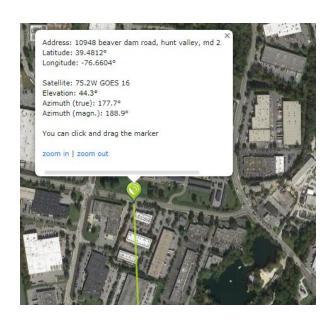




Aiming

- The integrated UB6 antenna has a gain of 6dBi with a 3dB beamwidth of 78 degrees
- Use dishpointer.com for elevation, azimuth, and direction
- The Stainless Steel Mounting Bracket can be adjusted for 5° 85° elevation

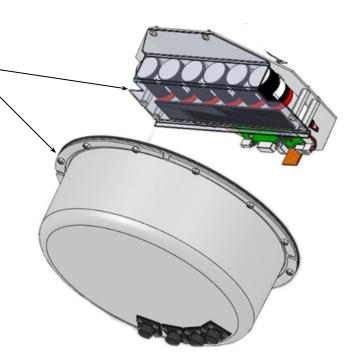






Maintenance

- The only routine maintenance needed is changing the battery packs.
- For the most part, this should be done every 5 years.
- To replace the batteries, remove:
 - 12 Nylon Locking Nuts
 - Bottom Cover
 - Connection Cables
 - Retention Plate
 - Neoprene Gasket
- It is important to replace the Neoprene
 Gasket Seal when changing the batteries





Receive Systems

- DAMS-NT DigiTrak Direct Readout Ground System
 - Direct Reception from the GOES Satellite
 - Lowest latency
 - Most reliable
 - ≥ 3.7 Meter Dish



- DigiRIT HRIT Receive System
 - Rebroadcast of all DCS messages
 - Roughly 20 25 second Latency
 - Low-cost
 - 1.5 Meter Dish









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