

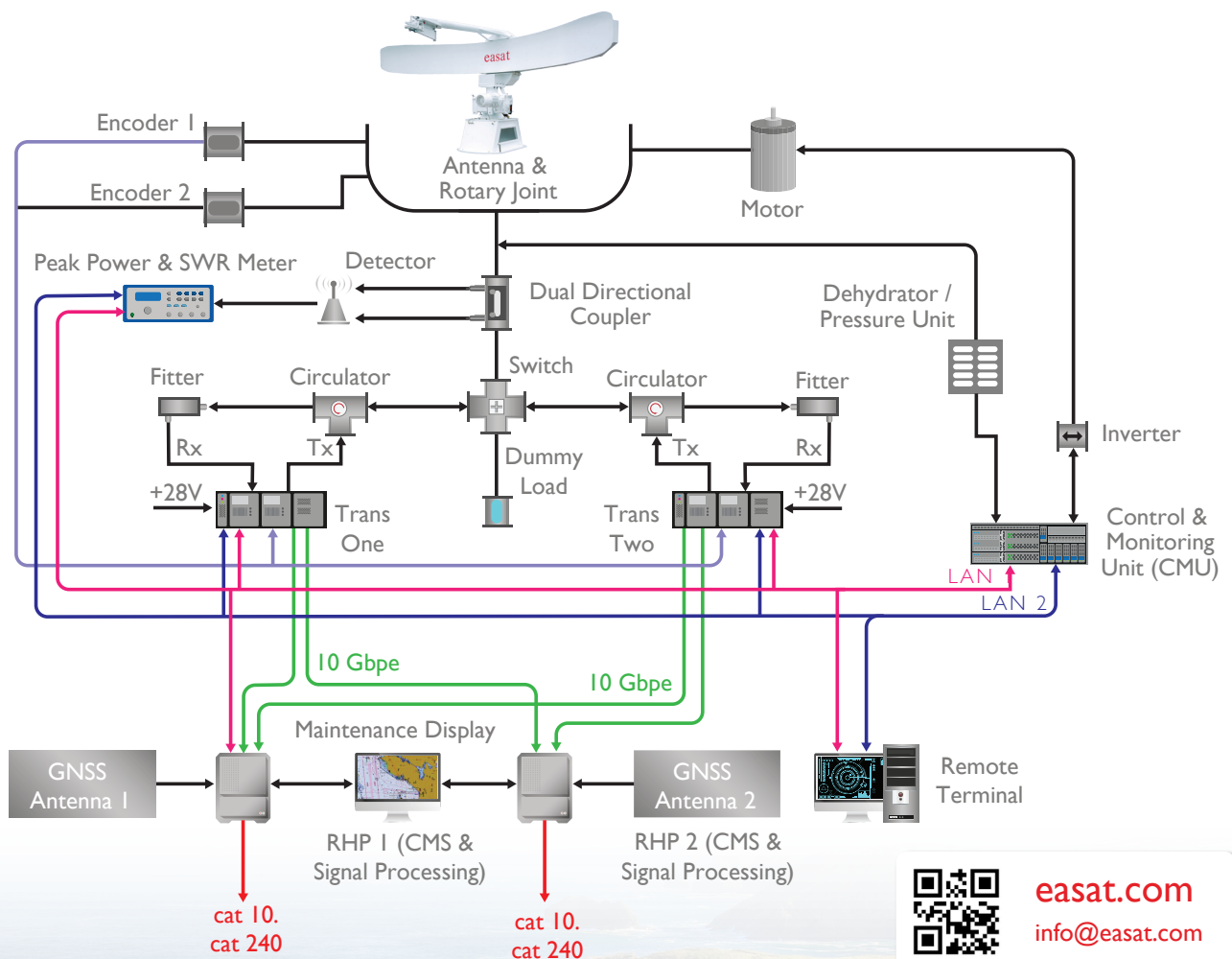
# easat<sup>®</sup>

RADAR SYSTEMS

## X BAND

TRANSCEIVERS FOR USE  
IN COASTAL SURVEILLANCE  
RADAR SYSTEMS

Easat offer X-Band, Solid-State, Dual Redundant, High-Power Transceivers to complement our range of High-Gain, High-Resolution Antennas.



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## Easat Solid-State, Dual Redundant 350 Watt X-Band Transceiver\*

RF Frequency Range	9.0 - 9.5 GHz
Output Peak Power	>300 W (typ. 350W)
Pulse Width, Short	25 ns
Pulse Compression Ratio, up to	3000 (Typically 2000)
Azimuth Coverage	360°
Antenna Rotational Speed	60 RPM
Processing Delay (Raw Video)	< 250 ms
Overall Dynamic Range	140 dB
Noise Figure	<3.5 dB
Range Cell Size	1.875 metres
Range Resolution (Raw Video)	≤ 5 meters
Range Accuracy	≤ 3.5 metres
Azimuth Resolution	≤ 0.43 deg
Azimuth Accuracy	≤ 0.09 deg
Complies with IALA requirements	Advanced Level
Temperature Range	0°C to 35°C
Relative Humidity	10% - 80%
X-Trac Redundant System Power Consumption	2.5 kW

Conventionally X-Band has been the normal choice for surface target surveillance (such as ships and boats). For a high installation looking at a surface targets X-Band will give the best range performance for a practical, commercial system in clear weather. This is due to the physics of the interaction of the radar signals with the surface of the Earth.

In these figures, the latest Easat high gain, high resolution antennas and digital, solid-state transceivers are used.

